

EnGenius®

Wireless-N Pocket AP/Router

ETR9330

Ultra Portable Pocket AP (Travel Router)
V1.0



1.	Package Contents	5
2.	System Requirements	5
3.	Introduction.....	6
4.	Features	7
5.	Hardware Overview	8
6.	Before you Begin	10
6.1	Considerations for Wireless Installation	10
6.2	AP Router / AP / Client Bridge Modes	11
6.3	Check Network Settings (Windows XP/Vista)	12
7.	Hardware Installation	15
8.	Configuring Travel Router.....	18
8.1	Setup Wizard	19
8.1.1	AP Router Mode	23
8.1.2	AP Mode.....	33
8.1.3	Client Bridge Mode	35
8.2	Web-Based Configuration.....	36
8.2.1	System	36
8.2.2	Internet	52
8.2.3	Wireless.....	62
8.2.4	Firewall	81
8.2.5	Advanced	88

8.2.6 Tools	99
8.3 AP and Client Bridge Modes	107
8.4 Client Bridge Mode	112
8.4.1 Wireless.....	112
Appendix A – FCC Interference Statement	115
Appendix B – IC Interference Statement	117

Revision History

Version	Date	Notes
1.0	March, 25, 2010	Initial Release version

1. Package Contents

- EnGenius TRAVEL ROUTER Ultra Portable Pocket AP
- AC Power Cord
- RJ45 Ethernet LAN Cable
- CD-ROM with User Manual and Setup Utility
- QIG

2. System Requirements

- RJ45 Ethernet Based Internet Connection
- Computer with Wireless Network function
- Windows, MAC OS or Linux based operating systems
- Internet Explorer or Firefox or Safari Web-Browser Software

3. Introduction

TRAVEL ROUTER is the world's smallest 11n Wireless Router and Access Point delivers convenience for users who need to create a wireless network to share the Internet, documents or multimedia files quickly between computers at speeds of up to 300Mbps.

Also, you can leave the bulky power adapter behind as the power supply unit is embedded in the device, so it can be slipped into your pocket easily.

The TRAVEL ROUTER can be connected to the Internet through a DSL/Cable modem at any available location. It can even share the connection in your hotel's room if a RJ45 network cable is used.

To ensure your data is secure, the TRAVEL ROUTER supports WiFi Protected Setup (WPS) for simple and easy setup of WPA2 encryption of the wireless signal.

4. Features

- **WORLD'S SMALLEST AP**

Superior design to bring you the world's smallest 11n AP Router for a true portable wireless solution.

- **INTERNAL POWER**

No need to bring bulky power adapters for improved space saving convenience.

- **3 OPERATION MODES**

AP Router, Access Point and Client Bridge modes for flexible usage in different scenarios.

- **802.11n COMPLIANT**

Fully 802.11n standard compliant to bring you 6x faster and 3x farther wireless connections at speeds up to 300Mbps.

- **WPS PUSH BUTTON**

WiFi Protected Setup (WPS) Push Button Configuration support for simple and secure setup of your wireless network.

- **BEST CHANNEL SELECTION**

In places where there are many wireless networks, the TRAVEL ROUTER will select the channel with the least interference for maximum reception and performance.

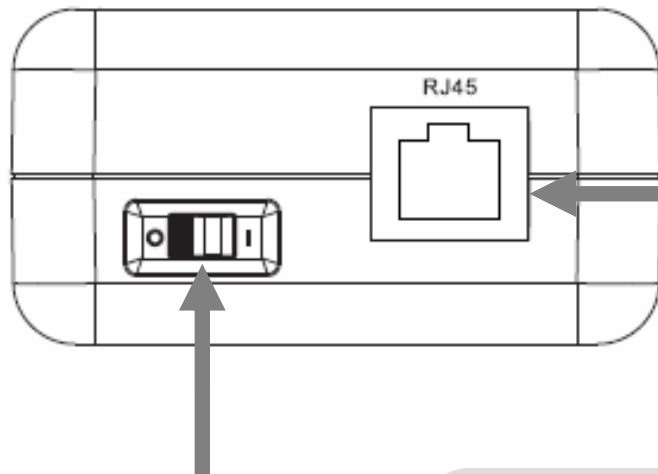
- **MULTI-SSID**

Up to 4 different wireless networks can be created with different security encryption methods. They can even be isolated so each wireless network has their own access policies.

- **ADVANCED FIREWALL AND ACCESS CONTROL**

Dual Firewall is featured to prevent unwanted access from the Internet. URL, MAC and IP Filters allows control over who can connect to your LAN, and what Internet sites they can connect to.

5. Hardware Overview



On/Off Switch

You can manually turn on/off the device using this slide switch.








O: Off **I:** ON

RJ45

This RJ45 port can be configured as WAN or LAN modes.

WAN: Connect to the Internet using DSL/Cable modem.

LAN: Connect to a computer, switch or hub.

LED Lights	icon	Description
Internet		Color – Blue Lights when connected to Internet Blinks when dialing.
Wireless LAN		Color – Blue Lights when Wireless signal is activated. Blinks when Wireless data transfer.
WPS		Color – Blue Blinks when WPS handshake is initialized.
LAN		Color – Blue Lights when wired network device is connected to RJ45 port. Blinks when data transfer occurs on RJ45 port.
Power		Color – Blue Lights when device is powered ON. Blinks device is Reset.
Mode		Indicates which mode the TRAVEL ROUTER is set to. Orange – AP Router Blue – Access Point Green – Client Bridge
Buttons	icon	Description
WPS		Press this button to initialize WPS process. Hold this button for 10 seconds to Reset to Factory Defaults.

6. Before you Begin

This section will guide you through the installation process. Placement of the TRAVEL ROUTER is very important to avoid poor signal reception and performance. Avoid placing the device in enclosed spaces such as a closet, cabinet or wardrobe.



6.1 Considerations for Wireless Installation

The operating distance of all wireless devices cannot be pre-determined due to a number of unknown obstacles in the environment that the device is deployed. These could be the number, thickness and location of walls, ceilings or other objects that the wireless signals must pass through. Here are some key guidelines to ensure that you have the optimal wireless range.

1. Keep the number of walls and ceilings between the EnGenius access point and other network devices to a minimum. Each wall or ceiling can reduce the signal strength, the degradation depends on the building's material.
2. Building materials makes a difference. A solid metal door or aluminum studs may have a significant negative effect on range. Locate your wireless devices carefully so the signal can pass through a drywall or open doorways. Materials such as glass, steel, metal, concrete, water (fish tanks), mirrors, file cabinets and brick will also degrade your wireless signal.
3. Interferences can also come from your other electrical devices or appliances that generate RF noise. The most usual types are microwaves, or cordless phones.

6.2 AP Router / AP / Client Bridge Modes

There are three main modes to select from which will influence the installation of the TRAVEL ROUTER. This section will help you determine which mode works with your setup.

AP Router Mode

AP Router Mode allows you to share an Internet connection to multiple computers.

AP Mode

AP mode allows you to have a wired or wireless router.

Client Bridge Mode

Client Bridge Mode allows a wired network device to connect to your wireless network, or create a point-to-point bridge.

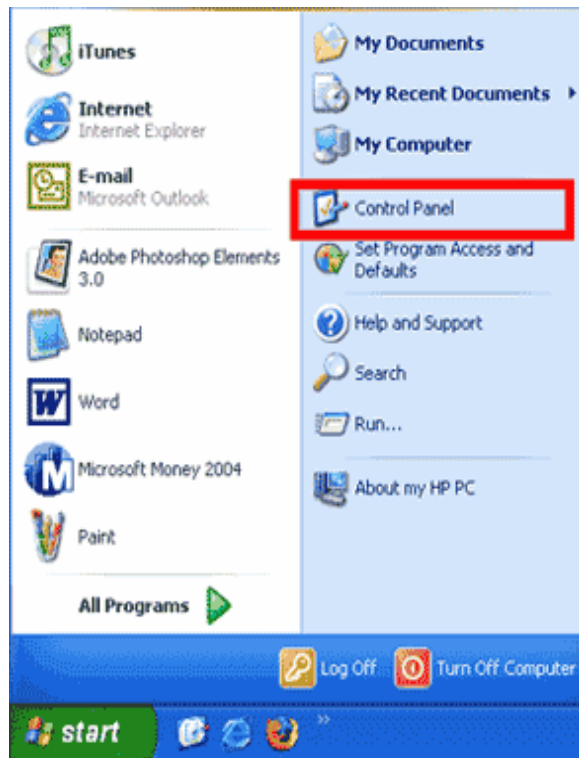
Change mode from the top right of the User Interface.



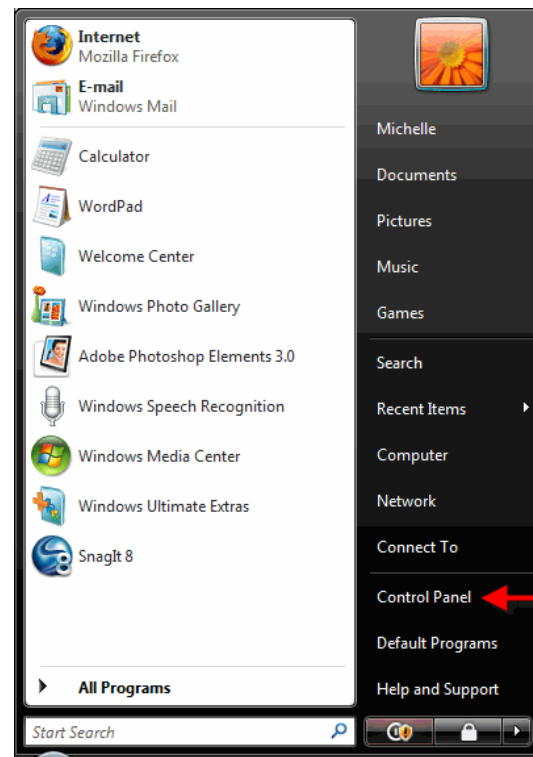
Please see ***Configuring the TRAVEL ROUTER*** for instructions to access the Web-Based User Interface.

6.3 Check Network Settings (Windows XP/Vista)

1. Click Start button and open Control Panel.



Windows XP



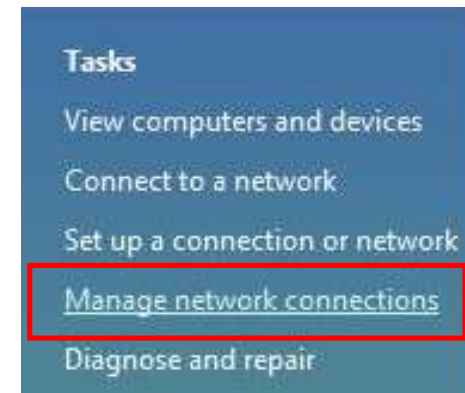
Windows Vista

13

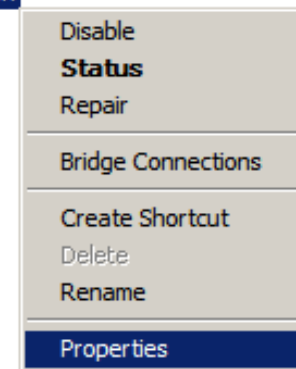
2. Windows XP, click [**Network Connection**]



Windows Vista, click [**View Network Status and Tasks**] then [**Manage Network Connections**]

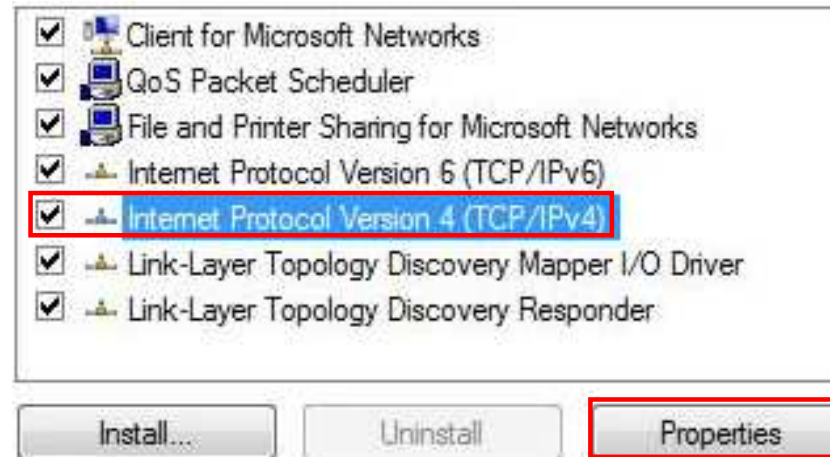


3. Right click on [**Local Area Connection**] and select [**Properties**].



4. Check **“Client for Microsoft Networks”**, **“File and Printer Sharing”**, and **“Internet Protocol (TCP/IP)”** is ticked. If not, please install them.

5. Select **“Internet Protocol (TCP/IP)”** and click **[Properties]**



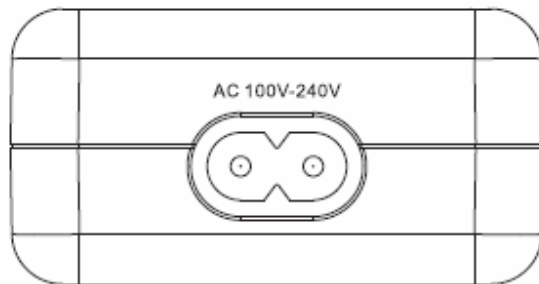
6. Select **“Obtain an IP Address automatically”** and **“Obtain DNS server address automatically”** and click **[OK]**.



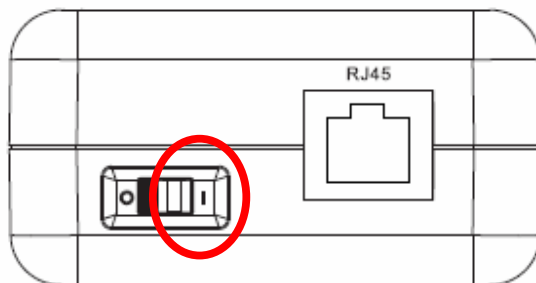
7. Hardware Installation

Power On :

Use the AC Power cord to connect TRAVEL ROUTER and outlet or any other power supplies to provide the electricity to the device.

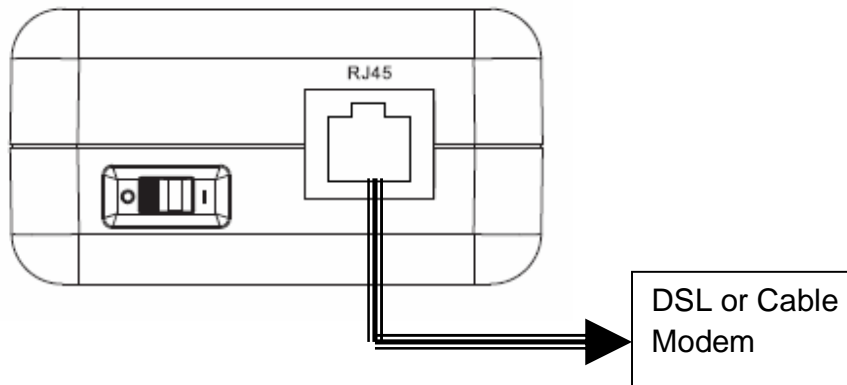


Make sure On/Off switch is on the right side where the symbol indicates "I".



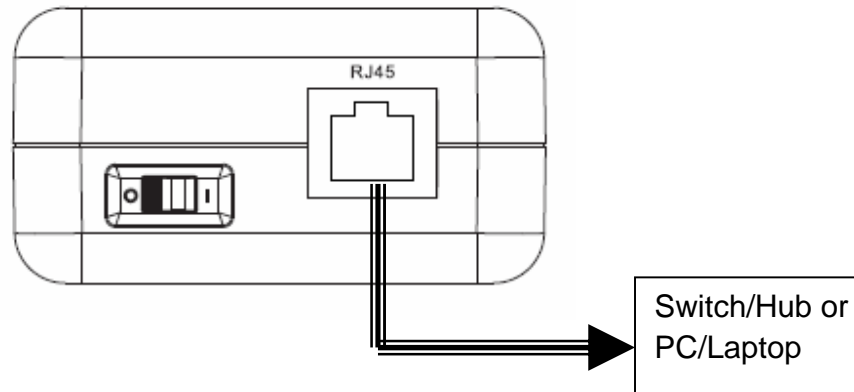
AP Router Mode:

One type of Internet connection is required. Please either connect the network cable from your DSL/Cable modem to the RJ45 port on the TRAVEL ROUTER.



AP Mode:

Connect the network cable to the RJ45 port.



8. Configuring Travel Router

This section will show you how to configure the device using the web-based configuration interface.

Please use your wireless network adapter to connect the TRAVEL ROUTER.

Default Settings

IP Address	192.168.0.1
Username / Password	admin / admin
Wireless Mode	Enable
Wireless SSID	EnGeniusxxxxxx
Wireless Security	None



Note: xxxxxx mentioned in the wireless SSID above is the last 6 characters of your device MAC Address. This can be found on the device body label and is unique for each device.

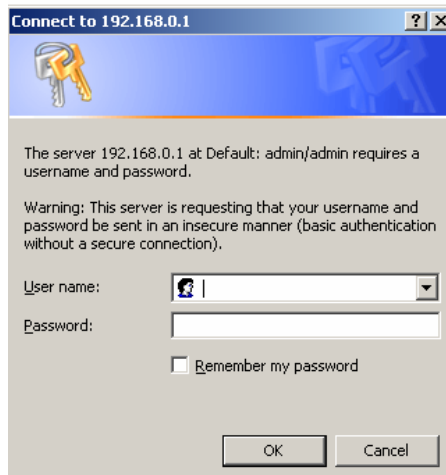
8.1 Setup Wizard

1. Open a web browser (Internet Explorer/Firefox/Safari) and enter the IP Address <http://192.168.0.1>

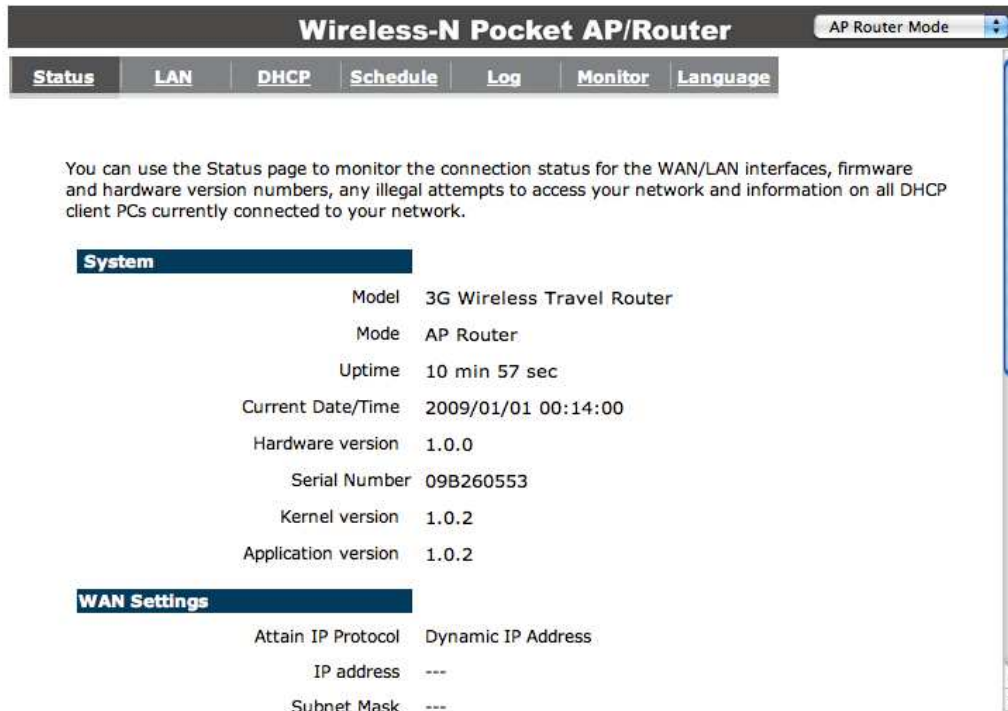
Note: If you have changed the default IP Address assigned to the TRAVEL ROUTER, ensure you enter the correct IP Address.



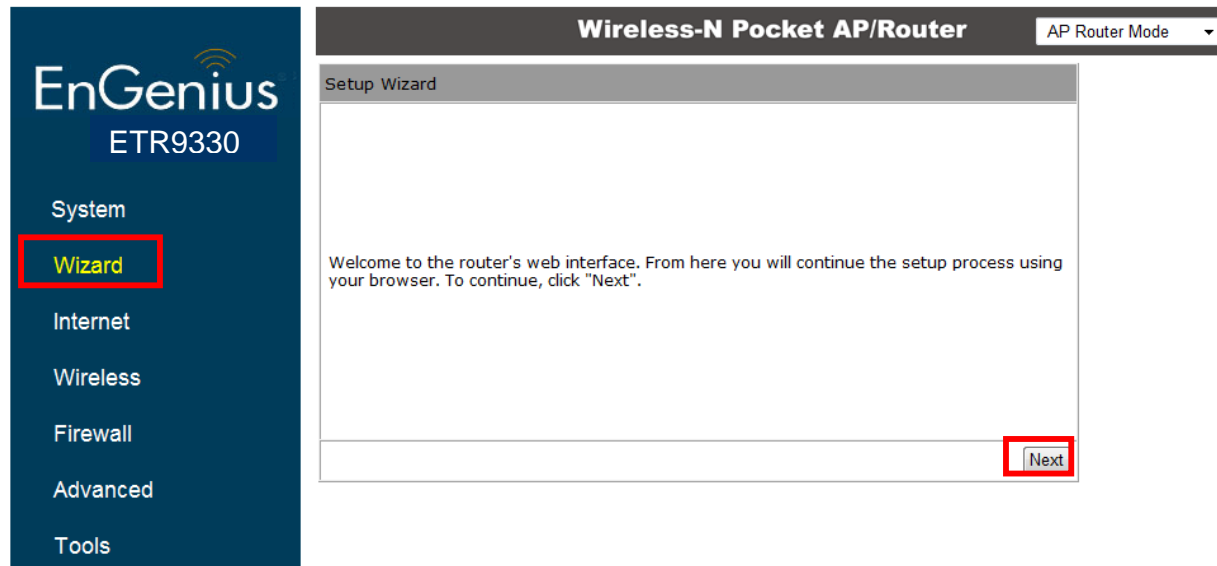
2. The default username and password is **admin**. Once you have entered the correct username and password, click the **OK** button to open the web-base configuration page.



3. You will see the following screen if the log on process is successful.



4. Click **Wizard** to enter the Setup Wizard.
Then click **Next** to begin the wizard.



5. Select the Operation Mode.

Please ensure you have the proper cables connected as described in the Hardware Installation section.

WAN Configuration

Please choose your service type or select Others to setup WAN configurations manually.

No Services found in WAN port. Please click rescan or manual configuration to setup WAN connection manually or skip this step.

Rescan

Skip

Manual Config

Setup Wizard

Please choose the Operation Mode.

☐ AP Router Mode:

AP Router is the most common Wireless LAN device with which you will work as a Wireless LAN administrator and Internet Access Point. AP Router provides clients with a point of access into the Internet.

☐ AP Mode:

AP Mode allows wireless communication devices to connect to a wireless network using Wi-Fi.

☐ Client Bridge Mode:

The Wireless Client Bridge can operate as a point-to-point bridge to link networks in different buildings.

Next

8.1.1 AP Router Mode

- a) The device will now automatically search for the correct Internet settings.

WAN Configuration

Automatically detecting the Services on WAN port. Please wait seconds

- b) The most appropriate WAN type will be determined and selected automatically. If it is incorrect, please select **Others** to set up the WAN settings manually.

WAN Configuration

Please choose your service type or select Others to setup WAN configurations manually.

	No.	Service	Description
<input checked="" type="radio"/>	1.	DHCP	DHCP is used when your Modem is controlling your internet connection the Username & Password is stored on the Modem.
<input type="radio"/>	2.	PPPoE	PPPoE is used when your modem is set in Bridge Mode and your Router is used to control the internet connection. IE: router houses ISP's Username & Password.
<input type="radio"/>	3.	Others	

- c) There are many WAN service types available. Please obtain the correct settings from your Internet Service Provider (ISP).

Setup Wizard

Please, enter the data which is supplied by your ISP.

Login Method: -- Select one --

- Select one --
- Static IP Address
- Dynamic IP Address
- PPP over Ethernet
- PPTP
- Mobile 3G
- L2TP

Next

Static IP Address

If your ISP Provider has assigned you a fixed IP address, enter the assigned IP address, Subnet mask, Default Gateway IP address, and Primary DNS and Secondary DNS (if available) of your ISP provider.

Login Method:

Static IP Address

IP address :

Subnet Mask :

Default Gateway :

Primary DNS :

Secondary DNS (Optional) :

Dynamic IP Address

The IP Address is allocated automatically. However some ISP's will also recognize the MAC address and will reject connections if the MAC address does not match.

If your ISP has recorded the MAC address of your computer's Ethernet LAN card, please connect only the computer with the authorized MAC address, and click the **Clone MAC Address** button.

This will replace the AP Router MAC address to the computer MAC address. The correct MAC address is used to initiate the connection to the ISP.

Login Method: Dynamic IP Address ▼

Hostname :

Mac :

Clone MAC Address

Dynamic IP Address	
Hostname:	This is optional. Only required if specified by ISP
MAC:	The MAC Address that is used to connect to the ISP.

PPP over Ethernet

ISP requires an account username and password.

Login Method: PPP over Ethernet ▼

Username :

Password :

Service :

MTU : (512<=MTU Value<=1492)

PPP over Ethernet	
Username:	Username assigned to you by the ISP
Password:	Password for this username.
Service:	You can assign a name for this service. (Optional)
MTU:	The maximum size of packets. Do not change unless mentioned by the ISP.

Point-to-Point Tunneling Protocol (PPTP)

PPTP is used by some ISPs.

Login Method:	<input type="text" value="PPTP"/>	
WAN Interface Settings :		
WAN Interface Type :	<input type="text" value="Dynamic IP Address"/>	
Hostname :	<input type="text"/>	
MAC Address :	<input type="text" value="000000000000"/>	<input type="button" value="Clone Mac"/>
PPTP Settings :		
Login :	<input type="text"/>	
Password :	<input type="text"/>	
Service IP address :	<input type="text"/>	
Connection ID :	<input type="text" value="0"/>	(Optional)
MTU :	<input type="text" value="1400"/>	(512<=MTU Value<=1492)

PPTP WAN Interface Settings	
WAN Interface Type:	Select whether the ISP is set to Static IP or Dynamic IP addresses.
Hostname:	This is optional. Only required if specified by ISP
MAC:	The MAC Address that is used to connect to the ISP.
PPTP Settings	
Login:	Username assigned to you by the ISP
Password:	Password for this username.
Service IP Address:	The IP Address of the PPTP server.
Connection ID:	This is optional. Only required if specified by ISP
MTU:	The maximum size of packets. Do not change unless mentioned by the ISP.

Layer-2 Tunneling Protocol (L2TP)

Login Method: L2TP ▼

WAN Interface Settings :

WAN Interface Type :	Dynamic IP Address ▼
Hostname :	<input type="text"/>
MAC Address :	<input type="text" value="000000000000"/> Clone Mac

L2TP Settings :

Login :	<input type="text"/>
Password :	<input type="text"/>
Service IP address :	<input type="text"/>
MTU :	<input type="text" value="1460"/> (512<=MTU Value<=1492)


L2TP WAN Interface Settings	
WAN Interface Type:	Select whether the ISP is set to Static IP or Dynamic IP addresses.
Hostname:	This is optional. Only required if specified by ISP
MAC:	The MAC Address that is used to connect to the ISP.
L2TP Settings	
Login:	Username assigned to you by the ISP
Password:	Password for this username.
Service IP Address:	The IP Address of the PPTP server.
MTU:	The maximum size of packets. Do not change unless mentioned by the ISP.

- d) Setup the level of wireless security to be used.
EnGenius recommends the **Highest** level of security to be used.

Note: 802.11n wireless speeds may not be achievable if the security is setup to Lowest and Low level.

WLAN Configuration

Please choose the security level in the security bar

Lowest  Highest

Type of wireless security: WPA2
Strength: Highest

WPA2 security offers the highest strength wireless security but lowest compatibility with older wireless network equipment.

Enter a security key that is between 8-63 characters long. Make sure the key is not a word or number that is easy to guess.

SSID :

EnGenius5FA6E8

Key :

1234567890

Skip

Next

SSID: Enter the name of your wireless network.
Key: Enter the security key for your wireless network.

- e) Check the settings are correct, and then click **Reboot** to apply the settings.

Setup Successfully

System Configuration:
Operation Mode : AP Router

WAN Configuration:
Connection Type : Dynamic IP Address

WLAN Configuration :
SSID : EnGenius5FA6E8
Security : WPA2 pre-shared key
WLAN Key : 1234567890

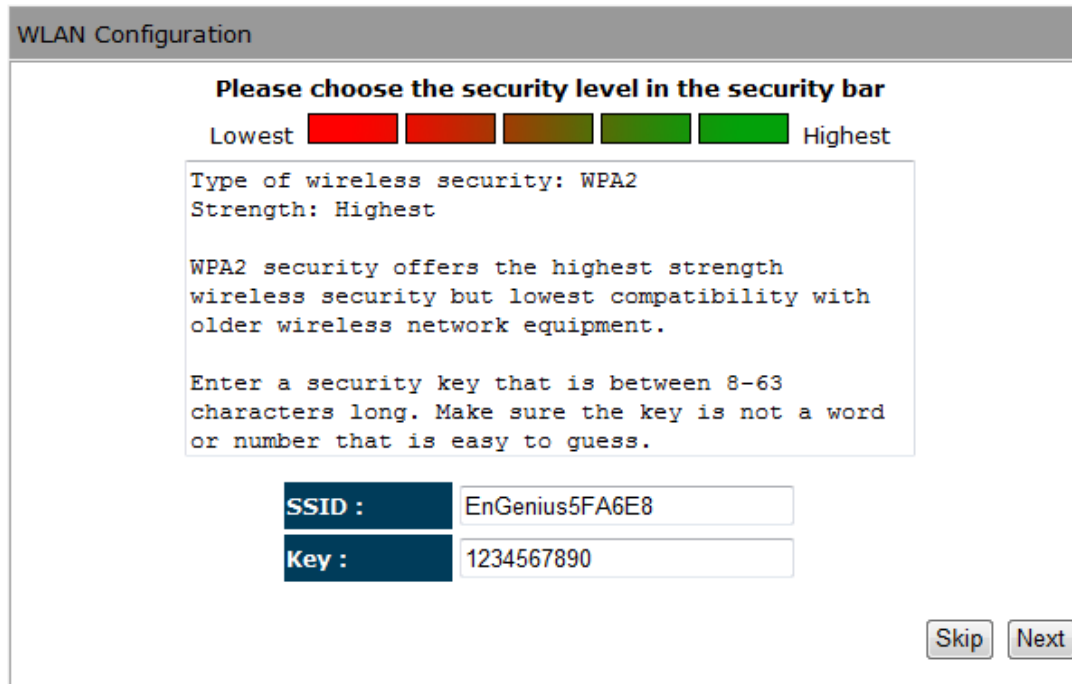
WLAN Router setup successfully. Please click reboot button to reboot system.

Reboot

8.1.2 AP Mode

- a) Select the level of wireless security to be used.
EnGenius recommends the **Highest** level of security to be used.

Note: 802.11n wireless speeds may not be achievable if the security is setup to Lowest and Low level.



The image shows a 'WLAN Configuration' window. At the top, it says 'Please choose the security level in the security bar'. Below this is a bar with five colored segments: red, orange, yellow, green, and dark green. The red segment is labeled 'Lowest' and the dark green segment is labeled 'Highest'. The green segment is selected. Below the bar, it says 'Type of wireless security: WPA2' and 'Strength: Highest'. A text box contains the following text: 'WPA2 security offers the highest strength wireless security but lowest compatibility with older wireless network equipment. Enter a security key that is between 8-63 characters long. Make sure the key is not a word or number that is easy to guess.' Below this text box are two input fields: 'SSID : EnGenius5FA6E8' and 'Key : 1234567890'. At the bottom right are 'Skip' and 'Next' buttons.

SSID: Enter the name of your wireless network.

Key: Enter the security key for your wireless network.

- b) Check the settings are correct, and then click **Reboot** to apply the settings.

Setup Successfully

System Configuration:

Operation Mode :

AP Router

WLAN Configuration :

SSID :

EnGenius5FA6E8

Security :

WPA2 pre-shared key

WLAN Key :

1234567890

WLAN Router setup successfully. Please click reboot button to reboot system.

Reboot

8.1.3 Client Bridge Mode

- a) In this mode, the TRAVEL ROUTER will connect to a wireless network as a client device. Please enter the SSID and security settings of that wireless network.

Setup Wizard

AP Profile Settings

Network Name (SSID) :	EnGenius
Encryption :	WPA pre-shared key ▾
WPA type :	<input type="radio"/> WPA(TKIP) <input checked="" type="radio"/> WPA2(AES)
Pre-shared Key type :	Passphrase ▾
Pre-shared Key :	0987654321

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Next

- b) Check the settings are correct, and then click **Reboot** to apply the settings.

System Configuration:

Operation Mode : Client Bridge

8.2 Web-Based Configuration

8.2.1 System

Status

This page allows you to monitor the status of the device.

System	
Model	3G Wireless Router
Mode	AP Router
Uptime	33 min 35 sec
Current Date/Time	2009/01/01 00:53:01
Hardware version	1.0.0
Serial Number	000000111
Kernel version	1.0.2
Application version	1.0.2

Status	
Model:	Description of this device.
Mode:	The device is currently in which mode.
Uptime:	The duration about the device has been operating without powering down or reboot.
Current Date/Time:	The device's system time. If this is incorrect, please set the time in the Tools / Time page.
Hardware version and Serial Number:	Hardware information for this device.
Kernel and Application version:	Firmware information for this device.

WAN Settings

Attain IP Protocol	Dynamic IP Address
IP address	10.0.174.29
Subnet Mask	255.255.254.0
Default Gateway	10.0.175.254
MAC address	00:02:6F:5F:A9:1E
Primary DNS	10.0.200.101
Secondary DNS	10.0.200.102

WAN Settings	
Attain IP Protocol:	Method used to connect to the Internet
IP address:	The WAN IP Address of the device.
Subnet Mask	The WAN Subnet Mask of the device.
MAC address	The MAC address of the device's WAN Interface.
Primary and Secondary DNS:	Primary and Secondary DNS servers assigned to the WAN connection.

LAN Settings

IP address 192.168.0.1
 Subnet Mask 255.255.255.0
 DHCP Server Enabled

LAN Settings	
IP address:	The LAN IP Address of the device.
Subnet Mask	The LAN Subnet Mask of the device.
DHCP Server	Whether the DHCP server is Enabled or Disabled.

WLAN Settings

Channel 11

SSID_1

ESSID EnGenius5FA6E8
 Security Disable
 BSSID 00:02:6F:5F:A6:E8
 Associated Clients 1

SSID_2

ESSID EnGenius5FA6E8_2
 Security Disable
 BSSID 00:02:6F:5F:A6:E9
 Associated Clients 0

WLAN Settings

Channel:	The wireless channel in use.
ESSID:	The SSID (Network Name) of the wireless network. (up to 4 SSID's are supported)
Security:	Wireless encryption is enabled for this SSID.
BSSID:	The MAC address of this SSID.
Associated Clients:	The number of wireless clients connected to this SSID.

LAN

This page allows you to modify the device's LAN settings.

Wireless-N Pocket AP/Router AP Router Mode ▾

Status LAN DHCP Schedule Log Monitor Language

You can enable the Broadband routers DHCP server to dynamically allocate IP Addresses to your LAN client PCs. The broadband router must have an IP Address for the Local Area Network.

LAN IP

IP address :

192.168.0.1

IP Subnet Mask :

255.255.255.0

802.1d Spanning Tree :

Disabled ▾

DHCP Server

DHCP Server :

Enabled ▾

Lease time :

Forever ▾

Start IP :

192.168.0.100

End IP :

192.168.0.200

Domain name :

etr9350

DNS Servers

DNS Servers Assigned by DHCP Server _____

LAN IP

IP address :

192.168.0.1

IP Subnet Mask :

255.255.255.0

802.1d Spanning Tree :

Disabled

LAN IP	
IP address:	The LAN IP Address of this device.
IP Subnet Mask:	The LAN Subnet Mask of this device.
802.1d Spanning Tree:	When Enabled, the Spanning Tree protocol will prevent network loops in your LAN network.

DHCP Server

DHCP Server :	Enabled ▾
Lease time :	Forever ▾
Start IP :	192.168.0.100
End IP :	192.168.0.200
Domain name :	etr9350

DHCP Server	
DHCP Server:	The DHCP Server automatically allocates IP addresses to your LAN devices.
Lease Time:	The duration of the DHCP server allocates each IP address to a LAN device.
Start / End IP:	The range of IP addresses of the DHCP server will allocate to LAN devices.
Domain name:	The domain name for this LAN network.

DNS Servers

DNS Servers Assigned by DHCP Server

First DNS Server	<div style="border: 1px solid #ccc; padding: 2px;"> DNS Relay ▼ </div>	192.168.0.1
Second DNS Server	<div style="border: 1px solid #ccc; padding: 2px;"> From ISP User-Defined DNS Relay None </div>	0.0.0.0

Two DNS servers can be assigned for use by your LAN devices.
There are three modes available.

DNS Servers	
From ISP:	The DNS server IP address is assigned from your ISP.
User-Defined:	The DNS server IP address is assigned manually.
DNS Relay:	LAN clients are assigned the device's IP address as the DNS server. DNS requests are relayed to the ISP's DNS server.

DHCP

This page shows the status of the DHCP server and also allows you to control how the IP addresses are allocated.

Wireless-N Pocket AP/Router

AP Router Mode

Status

LAN

DHCP

Schedule

Log

Monitor

Language

DHCP Client Table

This DHCP Client Table shows client IP address assigned by the DHCP Server

IP address	MAC address	Expiration Time
192.168.0.100	00:1A:4D:49:1E:3A	Forever
192.168.0.101	00:0C:F6:5C:06:14	Forever

Refresh

You can assign an IP address to the specific MAC address

☒ Enable Static DHCP IP

IP address	MAC address
<input type="text"/>	<input type="text"/>

Add

Reset

Current Static DHCP Table :

NO.	IP address	MAC address	Select
-----	------------	-------------	--------

The DHCP Client Table shows the LAN clients that have been allocated an IP address from the DHCP Server

DHCP Client Table

This DHCP Client Table shows client IP address assigned by the DHCP Server

IP address	MAC address	Expiration Time
192.168.0.100	00:1A:4D:49:1E:3A	Forever
192.168.0.101	00:0C:F6:5C:06:14	Forever

Refresh

DHCP Client Table

IP address:	The LAN IP address of the client.
MAC address:	The MAC address of the client's LAN interface.
Expiration Time:	The time that the allocated IP address will expire.
Refresh:	Click this button to update the DHCP Client Table.

☒ **Enable Static DHCP IP**

IP address	MAC address
<input type="text" value="192.168.0.155"/>	<input type="text" value="000AF43C1516"/>
<input type="button" value="Add"/>	<input type="button" value="Reset"/>

Current Static DHCP Table :

NO.	IP address	MAC address	Select
1	192.168.0.150	00:0C:C6:3C:06:17	<input type="checkbox"/>

<input type="button" value="Delete Selected"/>	<input type="button" value="Delete All"/>	<input type="button" value="Reset"/>
--	---	--------------------------------------

You can also manually specify the IP address that will be allocated to a LAN client by associating the IP address with its MAC address.

Type the IP address you would like to manually assign to a specific MAC address and click **Add** to add the condition to the Static DHCP Table.

Schedule

This page allows you to schedule times that the Firewall and Power Saving features will be activated / deactivated.

Click **Add** to create a Schedule entry.

Wireless-N Pocket AP/Router
AP Router Mode ▼

Status
LAN
DHCP
Schedule
Log
Monitor
Language

You can use the Schedule page to Start/Stop the Services regularly. The Schedule will start to run, when it get GMT Time from Time Server. Please set up the Time Server correctly in Toolbox. The services will start at the time in the following Schedule Table or it will stop.

☒ **Enabled Schedule Table (up to 8)**

NO.	Description	Service	Schedule	Select
1	schedule 01	Firewall	From 08:00 to 20:00---Mon, Wed, Fri	<input type="checkbox"/>
2	schedule 02	Power Saving	From 21:00 to 23:30---Mon, Tue, Wed, Thu, Fri, Sat, Sun	<input type="checkbox"/>

Add
Edit
Delete Selected
Delete All

Apply
Cancel

Schedule Description :	<input type="text" value="schedule 01"/>
Service :	<input checked="" type="checkbox"/> Firewall <input type="checkbox"/> Power Saving
Days :	<input type="checkbox"/> Every Day <input checked="" type="checkbox"/> Mon <input type="checkbox"/> Tue <input checked="" type="checkbox"/> Wed <input type="checkbox"/> Thu <input checked="" type="checkbox"/> Fri <input type="checkbox"/> Sat <input type="checkbox"/> Sun
Time of day :	<input type="checkbox"/> All Day (use 24-hour clock) From <input type="text" value="8"/> : <input type="text" value="0"/> To <input type="text" value="20"/> : <input type="text" value="0"/>

Schedule	
Schedule Description:	Assign a name to the schedule.
Service:	The service provides for the schedule.
Days:	Define the Days to activate or deactivate the schedule.
Time of day:	Define the Time of day to activate or deactivated the schedule. Please use 24-hour clock format.

Log

This page displays the system log of the device. When powered down or rebooted, the log will be cleared.

Wireless-N Pocket AP/Router
AP Router Mode ▼

Status
LAN
DHCP
Schedule
Log
Monitor
Language

View the system operation information.

```

day 1 02:01:25 [SYSTEM]: WLAN, start LLTD
day 1 02:01:25 [SYSTEM]: WLAN, LLTD Stopping
day 1 02:01:25 [SYSTEM]: UPnP, Stopping
day 1 02:01:24 [SYSTEM]: NET, start Firewall
day 1 02:01:24 [SYSTEM]: NET, start NAT
day 1 02:01:24 [SYSTEM]: NET, stop Firewall
day 1 02:01:24 [SYSTEM]: NET, stop NAT
day 1 02:01:24 [SYSTEM]: SCHEDULE, stop Power Save
day 1 02:01:24 [SYSTEM]: SCHEDULE, Schedule Stopping

```

Log	
Save:	Save the log to a file.
Clear:	Clears the log.
Refresh:	Updates the log.

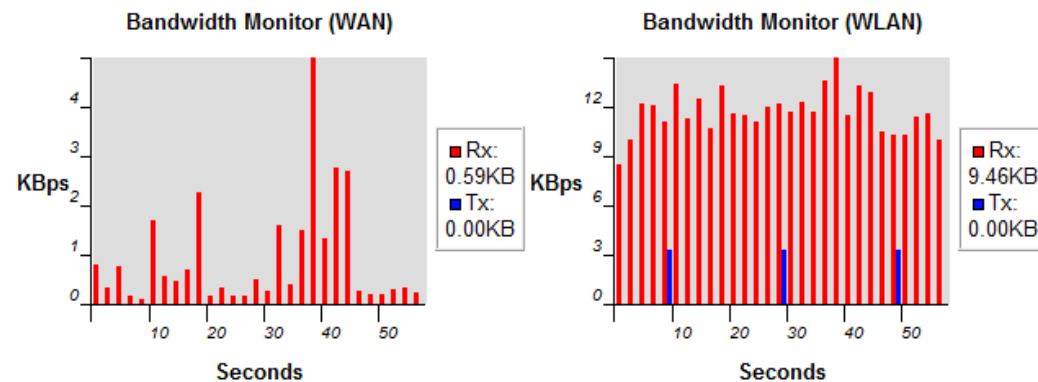
Monitor

This page shows a histogram of the WAN and Wireless LAN traffic.
The information is automatically updated every five seconds.

Wireless-N Pocket AP/Router AP Router Mode ▾

[Status](#) [LAN](#) [DHCP](#) [Schedule](#) [Log](#) **Monitor** [Language](#)

You can monitor the bandwidth in different interface. This page will refresh in every five seconds.

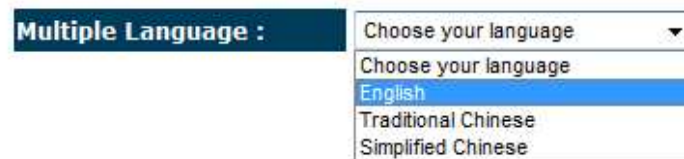


Language

This page allows you to change the Language of the User Interface.



You can select other language in this page.



8.2.2Internet

The Internet section allows you to manually set the WAN type connection and its related settings.

Status

This page shows the current status of the device’s WAN connection.

Wireless-N Pocket AP/Router

AP Router Mode

Status

Dynamic IP

Static IP

PPPoE

PPTP

L2TP

View the current internet connection status and related information.

WAN Settings

Attain IP Protocol	Dynamic IP Address
IP address	10.0.174.29
Subnet Mask	255.255.254.0
Default Gateway	10.0.175.254
MAC address	00:02:6F:5F:A9:1E
Primary DNS	10.0.200.101
Secondary DNS	10.0.200.102

Renew

Dynamic IP Address

The IP Address is allocated automatically. However some ISP's will also recognize the MAC address and will reject connections if the MAC address does not match.

If your ISP has recorded the MAC address of your computer's Ethernet LAN card, please connect only the computer with the authorized MAC address, and click the **Clone MAC Address** button.

This will replace the AP Router MAC address to the computer MAC address. The correct MAC address is used to initiate the connection to the ISP.

Wireless-N Pocket AP/Router AP Router Mode ▾

[Status](#) [Dynamic IP](#) [Static IP](#) [PPPoE](#) [PPTP](#) [L2TP](#)

You can select the type of the account you have with your ISP provider.

Hostname :	<input type="text"/>
MAC address :	<input type="text" value="000000000000"/> <input type="button" value="Clone MAC"/>
DNS Servers	
DNS Servers Type	<input type="text" value="From ISP"/> ▾
First DNS Server	<input type="text" value="10.0.200.101"/>
Second DNS Server	<input type="text" value="10.0.200.102"/>

Dynamic IP Address	
Hostname:	This is optional. Only required if specified by ISP
MAC address:	The MAC Address that is used to connect to the ISP.
DNS Servers	
Two DNS servers can be assigned for use by your LAN devices. There are two modes available.	
From ISP:	LAN devices are assigned the DNS server IP address of your ISP.
User-Defined:	Set the DNS server IP address manually.

Static IP Address

If your ISP Provider has assigned you a fixed IP address, enter the assigned IP address, Subnet mask, Default Gateway IP address, and Primary DNS and Secondary DNS (if available) of your ISP provider.

Wireless-N Pocket AP/Router AP Router Mode ▼

[Status](#) [Dynamic IP](#) [Static IP](#) [PPPoE](#) [PPTP](#) [L2TP](#)

You can select the type of the account you have with your ISP provider.

IP address:	<input type="text"/>
IP Subnet Mask :	<input type="text"/>
Default Gateway :	<input type="text"/>
Primary DNS :	<input type="text"/>
Secondary DNS :	<input type="text"/>

PPP over Ethernet

ISP requires an account username and password.

Wireless-N Pocket AP/Router AP Router Mode ▾

Status Dynamic IP Static IP **PPPoE** PPTP L2TP

You can select the type of the account you have with your ISP provider.

Login :	<input type="text" value="username"/>
Password :	<input type="password" value="••••••••"/>
Service Name	<input type="text" value="ISP"/>
MTU :	<input type="text" value="1492"/> (512<=MTU Value <=1492)
Authentication type :	Auto ▾
Type :	Keep Connection ▾
Idle Timeout :	<input type="text" value="10"/> (1-1000 Minutes)

Apply Cancel

PPP over Ethernet (PPPoE)	
Username:	Username assigned to you by the ISP
Password:	Password for this username.
Service:	You can assign a name for this service. (Optional)
MTU:	The maximum size of packets. Do not change unless mentioned by the ISP.
Authentication type	Select whether the ISP uses PAP or CHAP methods for authentication. Select Auto if unsure.
Type:	<p>You can choose the method that the router maintains connection with the ISP.</p> <p>Keep Connection: The device will maintain a constant connection with the ISP.</p> <p>Automatic Connection: The device will only initiate connection to the ISP when there is an Internet connection request made from a LAN device.</p> <p>Manual Connection: The user will need to manually connect to the ISP by clicking the Connect button.</p>
Idle Timeout:	<p>When the connection type is Automatic Connection, when Internet traffic is idle, then the device will automatically disconnect from the ISP.</p> <p>Please specify the Idle time in minutes.</p>

Point-to-Point Tunneling Protocol (PPTP)

PPTP is used by some ISPs.

Wireless-N Pocket AP/Router
AP Router Mode ▾

Status
Dynamic IP
Static IP
PPPoE
PPTP
L2TP

You can select the type of the account you have with your ISP provider.

WAN Interface Settings :

WAN Interface Type : Dynamic IP Address ▾

Hostname :

MAC address : Clone MAC

PPTP Settings :

Login :

Password :

Service IP address :

Connection ID : (Optional)

MTU : (512<=MTU Value <=1492)

Type : Keep Connection ▾

Idle Timeout : (1-1000 Minutes)

Apply Cancel

Point-to-Point Tunneling Protocol (PPTP)

WAN Interface Type:	Select whether the ISP is set to Static IP or will allocate Dynamic IP addresses.
----------------------------	---

Hostname:	This is optional. Only required if specified by ISP
MAC address:	The MAC Address that is used to connect to the ISP.
Login:	Username assigned to you by the ISP
Password:	Password for this username.
Service IP Address:	The IP Address of the PPTP server.
Connection ID:	This is optional. Only required if specified by ISP
MTU:	The maximum size of packets. Do not change unless mentioned by the ISP.
Type:	<p>You can choose the method that the router maintains connection with the ISP.</p> <p>Keep Connection: The device will maintain a constant connection with the ISP.</p> <p>Automatic Connection: The device will only initiate connection to the ISP when there is an Internet connection request made from a LAN device.</p> <p>Manual Connection: The user will need to manually connect to the ISP by clicking the Connect button.</p>
Idle Timeout:	<p>When the connection type is Automatic Connection, when Internet traffic is idle, then the device will automatically disconnect from the ISP.</p> <p>Please specify the Idle time in minutes.</p>

Layer-2 Tunneling Protocol (L2TP)

L2TP is used by some ISPs.

Wireless-N Pocket AP/Router AP Router Mode ▾

Status Dynamic IP Static IP PPPoE PPTP L2TP

You can select the type of the account you have with your ISP provider.

WAN Interface Settings :

WAN Interface Type : Dynamic IP Address ▾

Hostname :

MAC address : Clone MAC

L2TP Settings :

Login :

Password :

Service IP address :

MTU : (512<=MTU Value <=1492)

Type : Keep Connection ▾

Idle Timeout : (1-1000 Minutes)

Apply Cancel

Layer-2 Tunneling Protocol (L2TP)	
WAN Interface Type:	Select whether the ISP is set to Static IP or will allocate Dynamic IP addresses.
Hostname:	This is optional. Only required if specified by ISP
MAC:	The MAC Address that is used to connect to the ISP.
Login:	Username assigned to you by the ISP
Password:	Password for this username.
Service IP Address:	The IP Address of the PPTP server.
MTU:	The maximum size of packets. Do not change unless mentioned by the ISP.
Type:	<p>You can choose the method that the router maintains connection with the ISP.</p> <p>Keep Connection: The device will maintain a constant connection with the ISP.</p> <p>Automatic Connection: The device will only initiate connection to the ISP when there is an Internet connection request made from a LAN device.</p> <p>Manual Connection: The user will need to manually connect to the ISP by clicking the Connect button.</p>
Idle Timeout:	<p>When the connection type is Automatic Connection, when Internet traffic is idle, then the device will automatically disconnect from the ISP.</p> <p>Please specify the Idle time in minutes.</p>

8.2.3 Wireless

The Wireless section allows you to configure the Wireless settings.

Status

This page shows the current status of the device's Wireless settings.

Wireless-N Pocket AP/Router AP Router Mode ▾

[Basic](#) [Advanced](#) [Security](#) [Filter](#) [WPS](#) [Client List](#) [Policy](#)

This page allows you to define SSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.

Radio :	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Mode :	AP ▾
Band :	2.4 GHz (B+G+N) ▾
Enable SSID#:	2 ▾
SSID1 :	EnGenius5FA6E8
SSID2 :	EnGenius5FA6E8_2
Auto Channel :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Channel :	11 ▾

Apply Cancel

Basic	
Radio:	Enable or Disable the device's wireless signal.
Mode:	Select between Access Point or Wireless Distribution System (WDS) modes.
Band:	Select the types of wireless clients that the device will accept. eg: 2.4 Ghz (B+G) Only 802.11b and 11g clients will be allowed.
Enable SSID#:	Select the number of SSID's (Wireless Network names) you would like. You can create up to 4 separate wireless networks.
SSID#	Enter the name of your wireless network. You can use up to 32 characters.
Auto Channel:	When enabled, the device will scan the wireless signals around your area and select the channel with the least interference.
Channel:	Manually select which channel the wireless signal will use.
Check Channel Time:	When Auto Channel is Enabled, you can specify the period of the device will scan the wireless signals around your area.

Wireless Distribution System (WDS)

Using WDS to connect Access Point wirelessly, and in doing so extend a wired infrastructure to locations where cabling is not possible or inefficient to implement.

Note that compatibility between different brands and models is not guaranteed. It is recommended that the WDS network be created using the same models for maximum compatibility.

Also note that all Access Points in the WDS network needs to use the same Channel and Security settings.

To create a WDS network, please enter the MAC addresses of the Access Points that you want included in the WDS. There can be a maximum of four access points.

Radio :	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Mode :	WDS ▼
Band :	2.4 GHz (B+G+N) ▼
Enable SSID#:	2 ▼
SSID1 :	EnGenius5FA6E8
SSID2 :	EnGenius5FA6E8_2
Channel :	11 ▼
MAC address 1 :	000000000000
MAC address 2 :	000000000000
MAC address 3 :	000000000000
MAC address 4 :	000000000000
WDS Data Rate :	300M ▼
Set Security :	<input type="button" value="Set Security"/>

Advanced

This page allows you to configure wireless advance settings. It is recommended the default settings are used unless the user has experience with these functions.

Wireless-N Pocket AP/Router AP Router Mode ▾

[Basic](#) [Advanced](#) [Security](#) [Filter](#) [WPS](#) [Client List](#) [Policy](#)

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your Broadband router.

Fragment Threshold :	<input type="text" value="2346"/>	(256-2346)
RTS Threshold :	<input type="text" value="2347"/>	(1-2347)
Beacon Interval :	<input type="text" value="100"/>	(20-1024 ms)
DTIM Period :	<input type="text" value="1"/>	(1-255)
N Data rate :	<input type="text" value="Auto"/> ▾	
Channel Bandwidth :	<input checked="" type="radio"/> Auto 20/40 MHZ <input type="radio"/> 20 MHZ	
Preamble Type :	<input type="radio"/> Long Preamble <input checked="" type="radio"/> Short Preamble	
CTS Protection :	<input checked="" type="radio"/> Auto <input type="radio"/> Always <input type="radio"/> None	
Tx Power :	<input type="text" value="100 %"/> ▾	

Advanced	
Fragment Threshold:	<p>Specifies the size of the packet per fragment. This function can reduce the chance of packet collision.</p> <p>However when this value is set too low, there will be increased overheads resulting in poor performance.</p>
RTS Threshold:	When the packet size is smaller than the RTS Threshold, then the packet will be sent without RTS/CTS handshake which may result in incorrect transmission.
Beacon Interval:	The time interval that the device broadcasts a beacon. This beacon is used to synchronize all wireless clients on the network.
DTIM Period:	A Delivery Traffic Indication Message informs all wireless clients that the access point will be sending Multi-casted data.
N Data Rate:	You can limit the transfer rates between the device and wireless clients. Each Modulation Coding Scheme (MCS) refers to a specific transfer speed.
Channel Bandwidth:	<p>Set whether each channel uses 20 or 40Mhz.</p> <p>To achieve 11n speeds, 40Mhz channels must be used.</p>
Preamble Type:	<p>A preamble is a message that helps access points synchronize with the client.</p> <p>Long Preamble is standard based so increases compatibility. Short Preamble is non-standard, so it decreases compatibility but increases performance.</p>
CTS Protection:	When Enabled, the performance is slightly lower however the chances of packet collision is greatly reduced.
Tx Power:	Set the power output of the wireless signal.

Security

This page allows you to set the wireless security settings.

Wireless-N Pocket AP/Router AP Router Mode ▼

[Basic](#) [Advanced](#) [Security](#) [Filter](#) [WPS](#) [Client List](#) [Policy](#)

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

SSID Selection :	EnGenius5FA6E8 ▼
Broadcast SSID :	Enable ▼
WMM :	Enable ▼
Encryption :	Disable ▼

☐ **Enable 802.1x Authentication**

Apply Cancel

Security	
SSID Selection:	Select the SSID that the security settings will apply to.
Broadcast SSID:	If Disabled, then the device will not be broadcasting the SSID. Therefore it will be invisible to wireless clients.
WMM:	WiFi Multi-Media is a Quality of Service protocol which prioritizes traffic in the order according to voice, video, best effort, background. Note that in certain situations, WMM needs to be enabled to achieve 11n transfer speeds.
Encryption:	<p>The encryption method to be applied. You can choose from WEP, WPA pre-shared key or WPA RADIUS.</p> <ul style="list-style-type: none"> • Disabled - no data encryption is used. • WEP - data is encrypted using the WEP standard. • WPA-PSK - data is encrypted using the WPA-PSK standard. This is a later standard than WEP, and provides much better security than WEP. If all your Wireless stations support WPA-PSK, you should use WPA-PSK rather than WEP. • WPA2-PSK - This is a further development of WPA-PSK, and offers even greater security, using the AES (Advanced Encryption Standard) method of encryption. • WPA-RADIUS - This version of WPA requires a Radius Server on your LAN to provide the client authentication according to the 802.1x standard. Data transmissions are encrypted using the WPA standard. <p>If this option is selected:</p> <ul style="list-style-type: none"> • This Access Point must have a "client login" on the Radius Server. • Each user must have a "user login" on the Radius Server. • Each user's wireless client must support 802.1x and provide the login data when required. • All data transmission is encrypted using the WPA standard. Keys are automatically generated, so no key input is required.

IEEE 802.1x is an authentication protocol. Every user must use a valid account to login to this Access Point before accessing the wireless LAN. The authentication is processed by a RADIUS server. This mode only authenticates users by IEEE 802.1x, but it does not encrypt the data during communication.

☒ **Enable 802.1x Authentication**

RADIUS Server IP address :	<input type="text"/>
RADIUS Server port :	<input type="text" value="1812"/>
RADIUS Server password :	<input type="password"/>

802.1x Authentication

RADIUS Server IP Address:	The IP Address of the RADIUS Server
RADIUS Server port:	The port of the RADIUS Server.
RADIUS Server password:	The RADIUS Server's password.

WEP Encryption:

WEP Encryption	
Authentication Type:	Please ensure that your wireless clients use the same authentication type.
Key Length:	<p>Select the desired option, and ensure the wireless clients use the same setting.</p> <ul style="list-style-type: none"> • 64 Bit - data is encrypted, using the default key, before being transmitted. You must enter at least the default key. For 64 Bit Encryption, the key size is 10 chars in HEX (0~9 and A~F). • 128 Bit - data is encrypted, using the default key, before being transmitted. You must enter at least the default key. For 128 Bit Encryption, the key size is 26 chars in HEX (0~9 and A~F).
Default Key:	<p>Select the key you wish to be the default. Transmitted data is ALWAYS encrypted using the Default Key; the other Keys are for decryption only.</p> <p>You must enter a Key Value for the Default Key.</p>
Encryption Key #:	Enter the key value or values you wish to use. Only the Key selected as Default is required. The others are optional.

Encryption :	WEP ▼
Authentication type :	<input checked="" type="radio"/> Open System <input type="radio"/> Shared Key <input type="radio"/> Auto
Key Length :	128-bit ▼
Key type :	ASCII (13 characters) ▼
Default key :	Key 1 ▼
Encryption Key 1 :	1234567890123
Encryption Key 2 :	*****
Encryption Key 3 :	*****
Encryption Key 4 :	*****

WPA Pre-Shared Key Encryption:

Encryption :	WPA pre-shared key ▼
WPA type :	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES) <input type="radio"/> WPA2 Mixed
Pre-shared Key type :	Passphrase ▼
Pre-shared Key :	1234567890

WPA Pre-Shared Key Encryption	
Authentication Type:	Please ensure that your wireless clients use the same authentication type.
WPA type:	Select the WPA encryption you would like. Please ensure that your wireless clients use the same settings.
Pre-shared Key Type:	Select whether you would like to enter the Key in HEX or Passphrase format.
Pre-shared Key:	Wireless clients must use the same key to associate the device. If using passphrase format, the Key must be from 8 to 63 characters in length.

WPA RADIUS Encryption:

Encryption :	WPA RADIUS ▼
WPA type :	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES) <input type="radio"/> WPA2 Mixed
RADIUS Server IP address :	<input type="text"/>
RADIUS Server port :	1812
RADIUS Server password :	<input type="password"/>

WPA RADIUS Encryption	
WPA type:	Select the WPA encryption you would like. Please ensure that your wireless clients use the same settings.
RADIUS Server IP address:	Enter the IP address of the RADIUS Server
RADIUS Server Port:	Enter the port number used for connections to the RADIUS server.
RADIUS Server password:	Enter the password required to connect to the RADIUS server.

Filter

This page allows you to create filters to control which wireless clients can connect to this device by only allowing the MAC addresses entered into the Filtering Table.

Wireless-N Pocket AP/Router

AP Router Mode

Basic

Advanced

Security

Filter

WPS

Client List

Policy

For security reason, the Access Point features MAC Address Filtering which only allows authorized MAC Addresses to associate with the Access Point.

☒ **Enable Wireless Access Control**

Description	MAC address
<input type="text" value="Notebook2"/>	<input type="text" value="00ABC710722"/>

Add

Reset

MAC Address Filtering Table :

NO.	Description	MAC address	Select
1	Notebook1	00:0C:C6:3C:06:17	<input type="checkbox"/>

Delete Selected

Delete All

Reset

Apply

Cancel

Wireless Filter	
Enable Wireless Access Control:	<p>Tick the box to Enable Wireless Access Control.</p> <p>When Enabled, only wireless clients on the Filtering Table will be allowed.</p>
Description:	Enter a name or description for this entry.
MAC address:	Enter the MAC address of the wireless client that you wish to allow connection.
Add:	Click this button to add the entry.
Reset:	Click this button if you have made a mistake and want to reset the MAC address and Description fields.
MAC Address Filtering Table	
Only clients listed in this table will be allowed access to the wireless network.	
Delete Selected:	Delete the selected entries.
Delete All:	Delete all entries
Reset:	Un-tick all selected entries.

Wi-Fi Protected Setup (WPS)

WPS feature is following the Wi-Fi Alliance WPS standard and it eases the set up of security-enabled Wi-Fi networks in the home and small office environment.

It reduces the user steps required to configure a network and supports two methods that are familiar to most consumers to configure a network and enable security.

Wireless-N Pocket AP/Router AP Router Mode

[Basic](#) [Advanced](#) [Security](#) [Filter](#) [WPS](#) [Client List](#) [Policy](#)

WPS : ☒ Enable

WPS Button : ☒ Enable

Wi-Fi Protected Setup Information

WPS Current Status : Configured Release Configuration

Self Pin Code : 62686488

SSID : 123

Authentication Mode : WPA2 pre-shared key

Passphrase Key :

WPS Via Push Button : Start to Process

WPS via PIN : Start to Process

Wi-Fi Protected Setup (WPS)	
WPS:	Tick to Enable the WPS feature.
WPS Button:	Tick to Enable the WPS push button.
Wi-Fi Protected Setup Information	
WPS Current Status:	Shows whether the WPS function is Configured or Unconfigured . Configured means that WPS has been used to authorize connection between the device and wireless clients.
SSID:	The SSID (wireless network name) used when connecting using WPS.
Authentication Mode:	Shows the encryption method used by the WPS process.
Passphrase Key:	This is the passphrase key that is randomly generated during the WPS process. It is required if wireless clients that do not support WPS attempts to connect to the wireless network.
WPS Via Push Button:	Click this button to initialize WPS feature using the push button method.
Initializing WPS Feature	

There are two methods to initialize the WPS feature. They are the Push Button and Pin code methods.

1. WPS Push Button Method

Push the WPS button on the TRAVEL ROUTER device. The WPS LED light will start to flash to indicate that the WPS process is ready.



While the WPS LED is flashing on the TRAVEL ROUTER, press the WPS button on your wireless client. This could either be a physical hardware button, or a software button in the utility.



2. Pin Code Method

Note the Pin code of your TRAVEL ROUTER device.

WPS :	<input checked="" type="checkbox"/> Enable
WPS Button :	<input checked="" type="checkbox"/> Enable
Wi-Fi Protected Setup Information	
WPS Current Status :	unConfigured
Self Pin Code :	62686488
SSID :	EnGenius5FA6E8
Authentication Mode :	Disable
Passphrase Key :	<input type="text"/>
WPS Via Push Button :	<input type="button" value="Start to Process"/>
WPS via PIN :	<input type="text"/> <input type="button" value="Start to Process"/>

Please use this Pin code to initialize the WPS process from the wireless client configuration utility.

This process will be different for each brand or model. Please consult the user manual of the wireless client for more information.

Client List

This page shows the wireless clients that are connected to the TRAVEL ROUTER device.

Wireless-N Pocket AP/Router AP Router Mode ▼

[Basic](#) [Advanced](#) [Security](#) [Filter](#) [WPS](#) [Client List](#) [Policy](#)

WLAN Client Table :

This WLAN Client Table shows client MAC address associate to this Broadband Router

Interface	MAC Address	Signal (%)	Idle Time
EnGenius5FA6E8_2	00:19:7D:9E:D4:9C	68	20 secs

Refresh

Policy

This page allows you to configure the access policies for each SSID (wireless network).

Wireless-N Pocket AP/Router
AP Router Mode ▾

Basic
Advanced
Security
Filter
WPS
Client List
Policy

SSID 1 Connection Control Policy

WAN Connection	Enable ▾
Communication between Wireless clients	Enable ▾
Communication between Wireless clients and Wired clients	Enable ▾

SSID 2 Connection Control Policy

WAN Connection	Enable ▾
Communication between Wireless clients	Enable ▾
Communication between Wireless clients and Wired clients	Enable ▾

Policy	
WAN Connection:	Allow wireless clients on this SSID to access the WAN port which typically is an Internet connection.
Communication between Wireless clients:	Whether each wireless client can communicate with each other in this SSID. When Disabled, the wireless clients will be isolated from each other.
Communication between Wireless clients and Wired clients.	Whether wireless clients on this SSID can communicate with computers attached to the wired LAN port.

8.2.4 Firewall

The Internet section allows you to set the access control and Firewall settings.

Enable

This page allows you to Enable / Disable the Firewall features.

When Enabled, Denial of Service (DoS) and SPI (Stateful Packet Inspection) features are also be enabled.

Wireless-N Pocket AP/Router AP Router Mode ▼

[Enable](#) [Advanced](#) [DMZ](#) [DoS](#) [MAC Filter](#) [IP Filter](#) [URL Filter](#)

Firewall automatically detects and blocks Denial of Service (DoS) attacks. URL blocking, packet filtering and SPI (Stateful Packet Inspection) are also supported. The hackers attack will be recorded associated with timestamp in the security logging area.

Firewall : ☒ Enable ☐ Disable

Advanced

You can choose whether to allow VPN (Virtual Private Network) packets to pass through the Firewall.

Wireless-N Pocket AP/Router AP Router Mode ▾

[Enable](#) [Advanced](#) [DMZ](#) [DoS](#) [MAC Filter](#) [IP Filter](#) [URL Filter](#)

Description	Select
VPN PPTP Pass-Through	<input checked="" type="checkbox"/>
VPN IPSec Pass-Through	<input checked="" type="checkbox"/>

DMZ

This feature, if enabled, allows the DMZ computer on your LAN to be exposed to all users on the Internet.

- This allows almost any application to be used on the “DMZ PC”
- The “DMZ PC” will receive all Unknown connections and data.
- If the DMZ feature is enabled, please enter the IP address of the PC to be used as the “DMZ PC”

Note: The “DMZ PC” is effectively outside the Firewall, making it more vulnerable to attacks. For this reason, you should only enable the DMZ feature when required.

Wireless-N Pocket AP/Router AP Router Mode ▼

[Enable](#) [Advanced](#) [DMZ](#) [DoS](#) [MAC Filter](#) [IP Filter](#) [URL Filter](#)

If you have a local client PC that cannot run an Internet application properly from behind the NAT firewall, you can open unrestricted two-way Internet access for this client by defining a Virtual DMZ Host.

☒ **Enable DMZ**

Local IP Address : ▼

Denial of Service (DoS)

Denial of Service (Denial of Service) is a type of Internet attack that sends a high amount of data to you with the intent to overload your Internet connection.

Enable the DoS firewall feature to automatically detect and block these DoS attacks.

Wireless-N Pocket AP/Router AP Router Mode ▼

[Enable](#) [Advanced](#) [DMZ](#) [DoS](#) [MAC Filter](#) [IP Filter](#) [URL Filter](#)

The Firewall can detect and block DOS attacks, DOS (Denial of Service) attacks can flood your Internet Connection with invalid packets and connection requests, using so much bandwidth and so many resourcess that Internet access becomes unavailable.

Block DoS : ☒ Enable ☐ Disable

MAC Filter

You can choose whether to Deny or only Allow those computers listed in the MAC Filtering table to access the Internet.

[Enable](#)
[Advanced](#)
[DMZ](#)
[DoS](#)
[MAC Filter](#)
[IP Filter](#)
[URL Filter](#)

MAC Filters are used to deny or allow LAN computers from accessing the Internet.

☒ **Enable MAC filtering**

☐ Deny all clients with MAC address listed below to access the network
☒ Allow all clients with MAC address listed below to access the network

Description	LAN MAC Address
Notebook2	010CF63C0617

MAC Filtering table :

NO.	Description	LAN MAC Address	Select
1	Notebook1	00:0C:C6:3C:06:17	<input type="checkbox"/>

MAC Filter	
Enable MAC filtering:	Tick this box to Enable the MAC filtering feature.
Deny all clients with MAC addresses listed below to access the network:	When selected, the computers listed in the MAC Filtering table will be Denied access to the Internet.
Allow all clients with MAC addresses listed below to access the network:	When selected, only the computers listed in the MAC Filtering table will be Allowed access to the Internet.

IP Filter

You can choose whether to Deny or only Allow, computer with those IP Addresses from accessing certain Ports.

This can be used to control which Internet applications the computers can access.

You may need to have certain knowledge of what Internet ports the applications use.

Wireless-N Pocket AP/Router AP Router Mode

Enable Advanced DMZ DoS MAC Filter **IP Filter** URL Filter

IP Filters are used to deny or allow LAN computers from accessing the Internet.

☒ **Enable IP Filtering Table**

☐ Deny all clients with IP address listed below to access the network

☒ Allow all clients with IP address listed below to access the network

Description :

Protocol : Both

Local IP Address : ~

Port range : ~

Add Reset

NO.	Description	Local IP Address	Protocol	Port range	Select
1	Jack and John	192.168.0.100-192.168.0.101	BOTH	21-22	<input type="checkbox"/>

Delete Selected Delete All Reset

Apply Cancel

IP Filter

Enable IP filtering:	Tick this box to Enable the IP filtering feature.
Deny all clients with IP addresses listed below to access the network:	When selected, the computers with IP addresses specified will be Denied access to the indicated Internet ports.
Allow all clients with IP addresses listed below to access the network:	When selected, the computers with IP addresses specified will be Allowed access only to the indicated Internet ports.

URL Filter

You can deny access to certain websites by blocking keywords in the URL web address.

For example, “abc123” has been added to the URL Blocking Table. Any web address that includes “abc123” will be blocked.

Wireless-N Pocket AP/Router AP Router Mode ▼

[Enable](#) [Advanced](#) [DMZ](#) [DoS](#) [MAC Filter](#) [IP Filter](#) [URL Filter](#)

You can block access to certain Web sites for a particular PC by entering either a full URL address or just a keyword of the Web site

☒ **Enable URL Blocking**

URL/keyword

Current URL Blocking Table :

NO.	URL/keyword	Select
1	abc123	<input type="checkbox"/>

8.2.5 Advanced

The Internet section allows you to configure the **Advanced** settings of the router.

Network Address Translation (NAT)

This page allows you to Enable / Disable the Network Address Translation (NAT) feature. The NAT is required to share one Internet account with multiple LAN users.

It also is required for certain Firewall features to work properly.

Wireless-N Pocket AP/Router AP Router Mode ▼

[NAT](#) [Port map.](#) [Port fw.](#) [Port tri.](#) [ALG](#) [UPnP](#) [QoS](#) [Routing](#)

NAT(Network Address Translation) involves re-writing the source and/or destination addresses of IP packets as they pass through a Router or firewall, NAT enable multiple hosts on a private network to access the Internet using a single public IP address.

NAT : ☒ Enable ☐ Disable

Port Mapping

Port Mapping allows you to redirect a particular range of ports to a computer on your LAN network. This helps you host servers behind the NAT and Firewall.

In the example below, there is a Mail Server that requires ports 22 to 23. When there is a connection from the Internet on those ports, it will be redirected to the Mail Server at IP address 192.168.0.150.

Wireless-N Pocket AP/Router

AP Router Mode

NAT

Port map.

Port fw.

Port tri.

ALG

UPnP

QoS

Routing

Entries in this table allow you to automatically redirect common network services to a specific PC behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the local network .

☒ Enable Port Mapping

Description :

Local IP :

Protocol :

Port range :

Both

~

Add

Reset

Current Port Mapping Table :

NO.	Description	Local IP	Type	Port range	Select
1	Mail Server	192.168.0.150	BOTH	22-23	<input type="checkbox"/>

Delete Selected

Delete All

Reset

Apply

Cancel

Port Mapping	
Enable Port Mapping	Tick this box to Enable the Port Mapping feature.
Description:	Enter a name or description to help you identify this entry.
Local IP:	The local IP address of the computer the server is hosted on.
Protocol:	Select to apply the feature to either TCP, UDP or Both types of packet transmissions.
Port range:	The range of ports that this feature will be applied to.

Port Forwarding

Port Forwarding allows you to redirect a particular public port to a computer on your LAN network. This helps you host servers behind the NAT and Firewall.

In the example below, there is a FTP Server running on port 21 on the LAN.

For security reasons, the Administrator would like to provide this server to Internet connection on port 30.

Therefore then there is a connection from the Internet on port 30, it will be forwarded to the computer with the IP address 192.168.0.100 and changed to port 21.

The screenshot shows the 'Port fw.' tab in the router's configuration interface. It includes a description of port forwarding, a checkbox to 'Enable Port Forwarding' (which is checked), and input fields for 'Description', 'Local IP', 'Protocol' (set to 'Both'), 'Local Port', and 'Public Port'. Below these fields are 'Add' and 'Reset' buttons. A 'Current Port Forwarding Table' is displayed with one entry: 'FTP Server' on local IP '192.168.0.100', local port '21', and public port '30'. At the bottom are buttons for 'Delete Selected', 'Delete All', 'Reset', 'Apply', and 'Cancel'.

NO.	Description	Local IP	Local Port	Type	Public Port	Select
1	FTP Server	192.168.0.100	21	BOTH	30	<input type="checkbox"/>

Port Forwarding	
Enable Port Forwarding	Tick this box to Enable the Port Forwarding feature.
Description:	Enter a name or description to help you identify this entry.
Local IP:	The local IP address of the computer the server is hosted on.
Protocol:	Select to apply the feature to either TCP, UDP or Both types of packet transmissions.
Local Port:	The port that the server is running on the local computer.
Public Port:	When a connection from the Internet is on this port, then it will be forwarded to the indicated local IP address.

Port Trigger

If you use Internet applications which use non-standard connections or port numbers, you may find that they do not function correctly because they are blocked by the Wireless Router's firewall. Port Trigger will be required for these applications to work.

Wireless-N Pocket AP/Router AP Router Mode

NAT | Port map | Port fw | **Port tri** | ALG | UPnP | QoS | Routing

Port Triggering, also called Special Applications allows you to use Internet applications which normally do not function when used behind a firewall.

☒ **Enable Trigger Port**

Description : PC-to-Phone

Popular applications : PC-to-Phone

Trigger port : 12053 ~

Trigger type : Both

Public Port : 12120, 12122, 24150-24220

Public type : Both

Current Trigger-Port Table :

NO.	Trigger port	Trigger type	Public Port	Public type	Name	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>						

Port Trigger	
Enable Port Forwarding	Tick this box to Enable the Port Trigger feature.
Popular applications:	This is a list of some common applications with preset settings. Select the application and click Add to automatically enter the settings.
Trigger port:	This is the outgoing (outbound) port numbers for this application.
Trigger type	Select whether the application uses TCP, UDP or Both types of protocols for outbound transmissions.
Public Port	These are the inbound (incoming) ports for this application.
Public type:	Select whether the application uses TCP, UDP or Both types of protocols for inbound transmissions.

Application Layer Gateway (ALG)

Certain applications may require the use of ALG feature to function correctly. If you use any of the applications listed, please tick and select it to enable this feature.

Wireless-N Pocket AP/Router

AP Router Mode

NAT

Port map.

Port fw.

Port tri.

ALG

UPnP

QoS

Routing

The ALG (Application Layer Gateway) serves the purpose of a window between correspondent application processes so that they may exchange information on the open environment.

Description	Select
H323	<input type="checkbox"/>
MMS	<input type="checkbox"/>
TFTP	<input type="checkbox"/>
Egg	<input type="checkbox"/>
IRC	<input type="checkbox"/>
Amanda	<input type="checkbox"/>
Quake3	<input type="checkbox"/>
Talk	<input type="checkbox"/>
IPsec	<input type="checkbox"/>
FTP	<input type="checkbox"/>
SIP	<input type="checkbox"/>

Universal Plug and Play (UPnP)

The UPnP function allows automatic discovery and configuration of UPnP enabled devices on your network. It also provides automatic port forwarding for supported applications to seamlessly bypass the Firewall.

Wireless-N Pocket AP/Router
AP Router Mode ▼

NAT
Port map.
Port fw.
Port tri.
ALG
UPnP
QoS
Routing

Universal Plug and Play is designed to support zero-configuration, "invisible" networking, and automatic discovery for a range of device from a wide range of vendors. With UPnP, a device can dynamically join a network, obtain an IP address and learn about the presence and capabilities of other devices all automatically. Devices can subsequently communicate with each other directly

☐ Enable the Universal Plug and Play (UPnP) Feature

☐ Allow users to make port forwarding changes through UPnP

Universal Plug and Play (UPnP)	
Enable the UPnP Feature:	Tick this box to Enable the UPnP feature to allow supported devices to be visible on the network.
Allow users to make port forwarding changes through UPnP:	Tick this box to allow applications to automatically set their port forwarding rules to bypass the firewall without any user set up.

Quality of Service (QoS)

QoS allows you to control the priority that the data is transmitted over the Internet, or to reserve a specific amount of Internet bandwidth. This is to ensure that applications get enough Internet bandwidth for a pleasant user experience.

If not, then the performance and user experience of time sensitive transmissions such as voice and video could be very poor.

In order for this feature to function properly, the user should first set the Uplink and Downlink bandwidth provided by your Internet Service Provider.

Wireless-N Pocket AP/Router
AP Router Mode ▼

NAT
Port map.
Port fw.
Port tri.
ALG
UPnP
QoS
Routing

Quality of Service (QoS) refers to the capability of a network to provide better service to selected network traffic. The primary goal of QoS is to provide priority including dedicated bandwidth, controlled jitter and latency (required by some real-time and interactive traffic), and improved loss characteristics. Also important is making sure that providing priority for one or more flows does not make other flows fail .

Total Bandwidth Settings

Uplink	Full ▼
Downlink	Full ▼

QoS : ☐ Priority Queue ☐ Bandwidth Allocation ☒ Disabled

Total Bandwidth Settings	
Uplink:	Set the Uplink bandwidth provided by your Internet Service Provider.
Downlink:	Set the Downlink bandwidth provided by your Internet Service Provider.
Priority Queue	Sets the QoS method to Priority Queue.
Bandwidth Allocation:	Sets the QoS method to Bandwidth Allocation.
Disabled	Disables the QoS feature.

Priority Queue Method

Bandwidth priority is set to either High or Low. The transmissions in the High queue will be processed first.

QoS : ☒ Priority Queue ☐ Bandwidth Allocation ☐ Disabled

Unlimited Priority Queue

Local IP Address	Description
<input type="text"/>	The IP address will not be bounded in the QoS limitation

High/Low Priority Queue

Protocol	High Priority	Low Priority	Specific Port
FTP	<input type="radio"/>	<input checked="" type="radio"/>	20,21
HTTP	<input type="radio"/>	<input checked="" type="radio"/>	80
TELNET	<input type="radio"/>	<input checked="" type="radio"/>	23
SMTP	<input type="radio"/>	<input checked="" type="radio"/>	25
POP3	<input type="radio"/>	<input checked="" type="radio"/>	110
Name: <input type="text"/>	<input type="radio"/>	<input checked="" type="radio"/>	Both <input type="text"/> ~ <input type="text"/>
Name: <input type="text"/>	<input type="radio"/>	<input checked="" type="radio"/>	Both <input type="text"/> ~ <input type="text"/>
Name: <input type="text"/>	<input type="radio"/>	<input checked="" type="radio"/>	Both <input type="text"/> ~ <input type="text"/>

Unlimited Priority Queue	
Local IP Address:	The computer with this IP Address will not be bound by the QoS rules.
High / Low Priority Queue	
Protocol:	The type of network protocol.
High / Low Priority	Sets the protocol to High or Low priority.
Specific Port	Each protocol uses a specific port range. Please specify the ports used by this protocol.

Bandwidth Allocation Method

You can set the **maximum** amount of bandwidth a certain protocol will use at one time. Or you can set a **minimum** amount of bandwidth that will be guaranteed to a certain protocol.

QoS : ☐ Priority Queue ☒ Bandwidth Allocation ☐ Disabled

Type :	Download ▾
Local IP range :	<input type="text"/> ~ <input type="text"/>
Protocol :	ALL ▾
Port range :	<input type="text"/> 1 ~ <input type="text"/> 65535
Policy :	Min ▾
Rate(bps) :	Full ▾
<input type="button" value="Add"/> <input type="button" value="Reset"/>	

Current QoS Table:

NO.	Type	Local IP range	Protocol	Port range	Policy	Rate (bps)	Select
1	Both	192.168.0.100 ~ 192.168.0.103	TCP	80 ~ 90	Min	2M	<input type="checkbox"/>

Bandwidth Allocation

Type:	Set whether the QoS rules apply to transmission that are Download, Upload or Both directions.
Local IP range:	Enter the IP address range of the computers that you would like the QoS rules to apply to.
Protocol:	Select from this list of protocols to automatic set the related port numbers.
Port range:	Each protocol uses a specific port range. Please specify the ports used by this protocol..
Policy:	Choose whether this rule is to set a limit on the Maximum amount of bandwidth allocated to this protocol, or to set the guaranteed Minimum amount of bandwidth for this protocol.

Routing

If your TRAVEL ROUTER device is connected a network with different subnets, then this feature will allow the different subnets to communicate with each other.

Note: NAT function needs to be disabled for the Routing feature to be enabled.

Wireless-N Pocket AP/Router

AP Router Mode

Enable

Routing

You can enable Static Routing to turn off the NAT function of the router and let the router forward packets by your routing policy .

To take Static Route effect, please disable NAT function.

☐ Enable Static Routing

Destination LAN IP :

Subnet Mask :

Default Gateway :

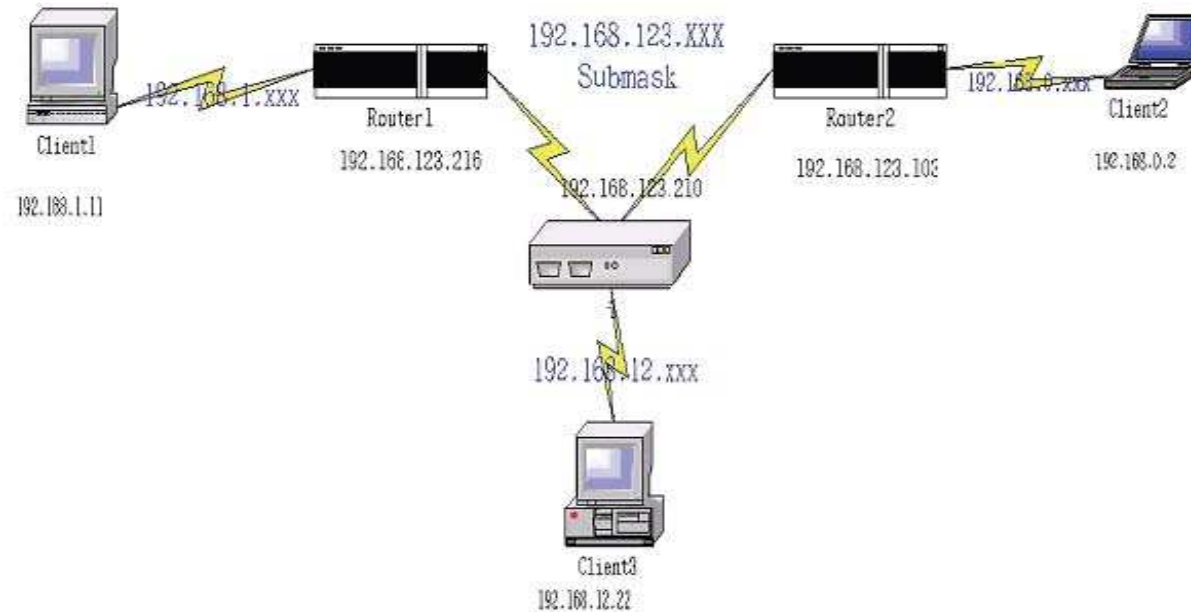
Hops:

Interface : LAN

Current Static Routing Table :

NO.	Destination LAN IP	Subnet Mask	Default Gateway	Hops	Interface	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>						

Static Routing	
Enable Static Routing:	Tick this box to Enable the Static Router feature.
Destination LAN IP:	Enter the IP address of the destination LAN.
Subnet Mask:	Enter the Subnet Mask of the destination LAN IP address
Default Gateway:	Enter the IP address of the Default Gateway for this destination IP and Subnet.
Hops:	Specify the maximum number of Hops in the static routing rule.
Interface:	Select whether the routing applies to LAN or WAN interfaces.



Destination	Subnet Mask	Gateway	Hop	Interface
192.168.1.0	255.255.255.0	192.168.123.216	1	LAN
192.168.0.0	255.255.255.0	192.168.123.103	1	LAN

So if, for example, Client3 wants to send an IP data packet to 192.168.0.2 (Client 2), it would use the above table to determine that it had to go via 192.168.123.103 (Router 2)

And if it sends Packets to 192.168.1.11 (Client 1) will go via 192.168.123.216 (Router 1).

8.2.6Tools

This section allows you to configure some device system settings.

Admin

This page allows you to change the system password and to configure remote management.

Wireless-N Pocket AP/Router

AP Router Mode

Admin

Time

DDNS

Power

Diagnosis

Firmware

Back-up

Reset

You can change the password that you use to access the router, this is not your ISP account password.

Old Password :

New Password :

Repeat New Password :

Remote management allows the router to be configured from the Internet by a web browser, A username and password is still required to access the Web-Management interface.

Host Address	port	Enable
<div></div>	80	<input checked="" type="checkbox"/>

Apply

Cancel

Change Password	
Old Password:	Enter the current password.
New Password:	Enter your new password.
Repeat New Password:	Enter your new password again for verification.
Remote Management	
Host Address:	You can only perform remote management from the specified IP address. Leave blank to allow any host to perform remote management.
Port:	Enter the port number you want to accept remote management connections.
Enable:	Tick to Enable the remote management feature.

Time

This page allows you to set the system time.

Wireless-N Pocket AP/Router
AP Router Mode ▼

Admin
Time
DDNS
Power
Diagnosis
Firmware
Back-up
Reset

The Router reads the correct time from NTP servers on the Internet and sets its system clock accordingly. The Daylight Savings option merely advances the system clock by one hour. The time zone setting is used by the system clock when displaying the correct time in schedule and the log files.

Time Setup:

Synchronize with the NTP Server ▼

Time Zone :

(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London ▼

NTP Time Server :

Daylight Saving :

☐ Enable
From To

Apply
Cancel

Time	
Time Setup:	Select the method you want to set the time.
Time Zone:	Select the time zone for your current location.
NTP Time Server:	Enter the address of the Network Time Protocol (NTP) Server to automatically synchronize with a server on the Internet.
Daylight Savings:	Check whether daylight savings applies to your area.

Dynamic DNS (DDNS)

This free service is very useful when combined with the *Virtual Server* feature. It allows Internet users to connect to your Virtual Servers using a URL, rather than an IP Address.

This also solves the problem of having a dynamic IP address. With a dynamic IP address, your IP address may change whenever you connect, which makes it difficult to connect to you.

DDNS Services work as follows:

1. You must register for the service at one of the listed DDNS Service providers.
2. After registration, use the Service provider's normal procedure to obtain your desired Domain name.
3. Enter your DDNS data on the ETR-9305's DDNS screen, and enable the DDNS feature.
4. The Wireless Router will then automatically ensure that your current IP Address is recorded at the DDNS service provider's Domain Name Server.
5. From the Internet, users will be able to connect to your Virtual Servers (or DMZ PC) using your Domain name, as shown on this screen.

Dynamic DNS	
Dynamic DNS	Tick this box to Enable the DDNS feature.
Server Address:	Select the list of Dynamic DNS homes you would like to use from this list.
Username / Password:	Enter the Username and Password of your DDNS account.

Power

This page allows you to Enable or Disable the wireless LAN power saving features.

Wireless-N Pocket AP/Router AP Router Mode ▼

[Admin](#) | [Time](#) | [DDNS](#) | **[Power](#)** | [Diagnosis](#) | [Firmware](#) | [Back-up](#) | [Reset](#)

You can use the power page to save energy for WLAN interfaces.

Power Saving Mode :

WLAN : ☐ Enable ☒ Disable

Diagnosis

This page allows you determine if the TRAVEL ROUTER device has an active Internet connection.

Wireless-N Pocket AP/Router
AP Router Mode ▼

Admin | Time | DDNS | Power | **Diagnosis** | Firmware | Back-up | Reset

This page can diagnose the current network status

Address to Ping :

Start

Ping Result :

Diagnosis	
Address to Ping:	Enter the IP address you like to see if a successful connection can be made.
Ping Result:	The results of the Ping test.

Firmware

The firmware (software) in the TRAVEL ROUTER device can be upgraded using your Web Browser.

The screenshot shows the web interface of a 'Wireless-N Pocket AP/Router'. At the top, there's a title bar with the device name and a dropdown menu set to 'AP Router Mode'. Below this is a navigation bar with tabs: Admin, Time, DDNS, Power, Diagnosis, Firmware (which is highlighted), Back-up, and Reset. The main content area contains a text instruction: 'You can upgrade the firmware of the router in this page. Ensure, the firmware you want to use is on the local hard drive of your computer. Click on Browse to browse and locate the firmware to be used for your update.' Below the text is a file input field with a 'Browse...' button. At the bottom right of the form are 'Apply' and 'Cancel' buttons.

To perform the Firmware Upgrade:

1. Click the **Browse** button and navigate to the location of the upgrade file.
2. Select the upgrade file. Its name will appear in the *Upgrade File* field.
3. Click the **Apply** button to commence the firmware upgrade.

Note: The Wireless Router is unavailable during the upgrade process, and must restart when the upgrade is completed. Any connections to or through the Wireless Router will be lost.

Back-up

Wireless-N Pocket AP/Router

AP Router Mode ▼

Admin

Time

DDNS

Power

Diagnosis

Firmware

Back-up

Reset

Use BACKUP to save the routers current configuration to a file named config.dlf. You can use RESTORE to restore the saved configuration. Alternatively, you can use RESTORE TO FACTORY DEFAULT to force the router to restore the factory default settings.

Restore to factory default :

Reset

Backup Settings :

Save

Restore Settings :

Browse...

Upload

Back-up	
Restore to factory default:	Restores the device to factory default settings.
Backup Settings:	Save the current configuration settings to a file.
Restore Settings:	Restores a previously saved configuration file. Click Browse to select the file. Then Upload to load the settings.

Reset

In some circumstances it may be required to force the device to reboot.

Wireless-N Pocket AP/Router AP Router Mode ▼

[Admin](#) | [Time](#) | [DDNS](#) | [Power](#) | [Diagnosis](#) | [Firmware](#) | [Back-up](#) | [Reset](#)

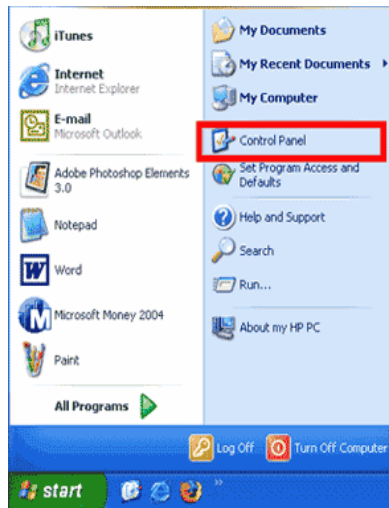
In the event the system stops responding correctly or stops functioning, you can perform a reset. Your settings will not be changed. To perform the reset, click on the APPLY button.

8.3 AP and Client Bridge Modes

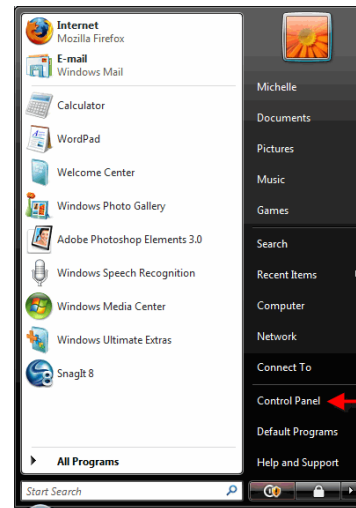
When the TRAVEL ROUTER device is set to AP or Client Bridge modes, it will no longer allocate IP addresses to its wireless clients.

To access the Web-Based configuration page, please follow the following steps to set a static IP address (Windows XP/Vista).

1. Connect to the TRAVEL ROUTER using an Ethernet CAT.5 LAN Cable.
2. Click Start and open Control Panel.



Windows XP

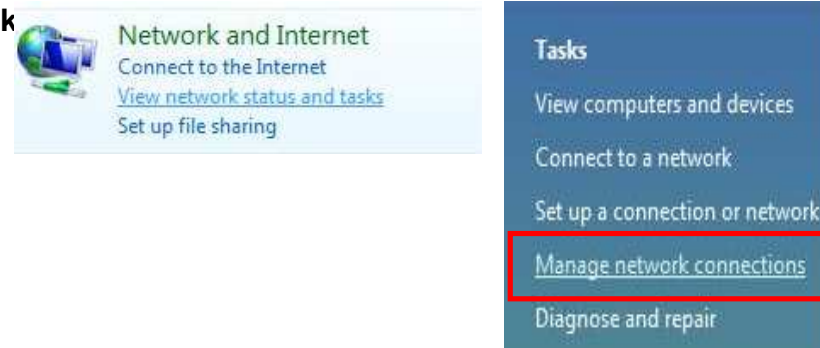


Windows Vista

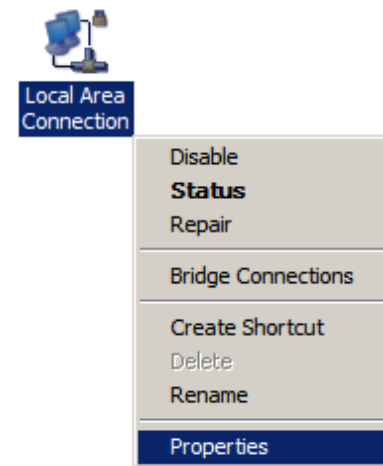
3. Windows XP, click **[Network Connection]**



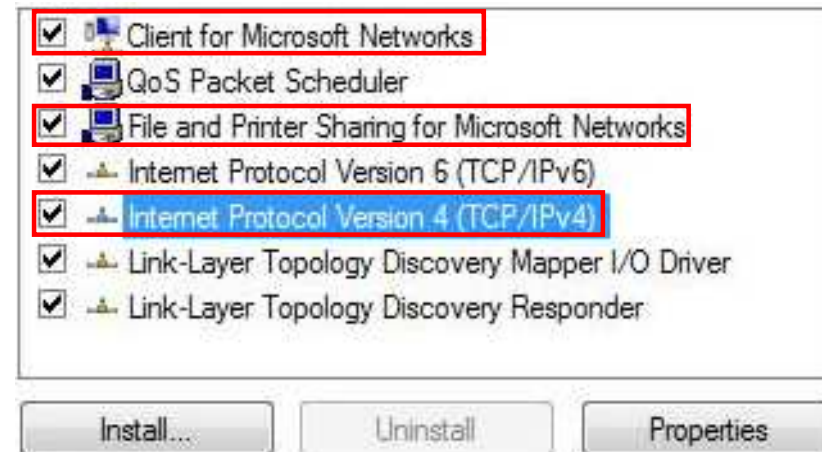
Windows Vista, click **[View Network Status and Task Center]** then **[Manage Network Connections]**



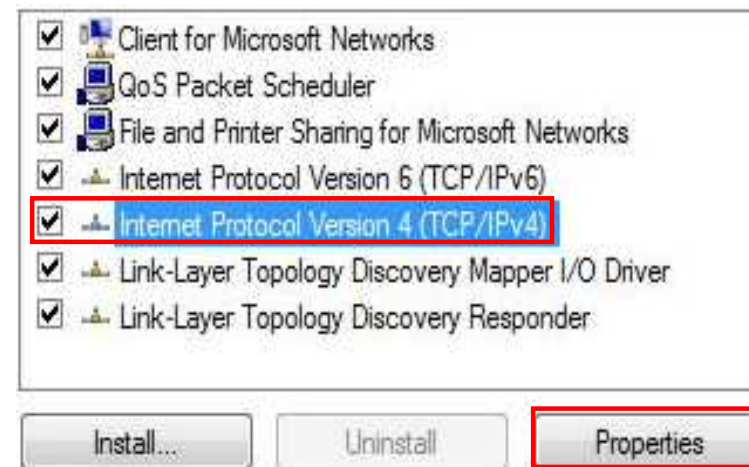
4. Right click on **[Local Area Connection]** and choose **[Properties]**.



5. Check “Client for Microsoft Networks”, “File and Printer Sharing”, and “Internet Protocol (TCP/IP)” is ticked. If not, please install them.



6. Select “Internet Protocol (TCP/IP)” and click [Properties]

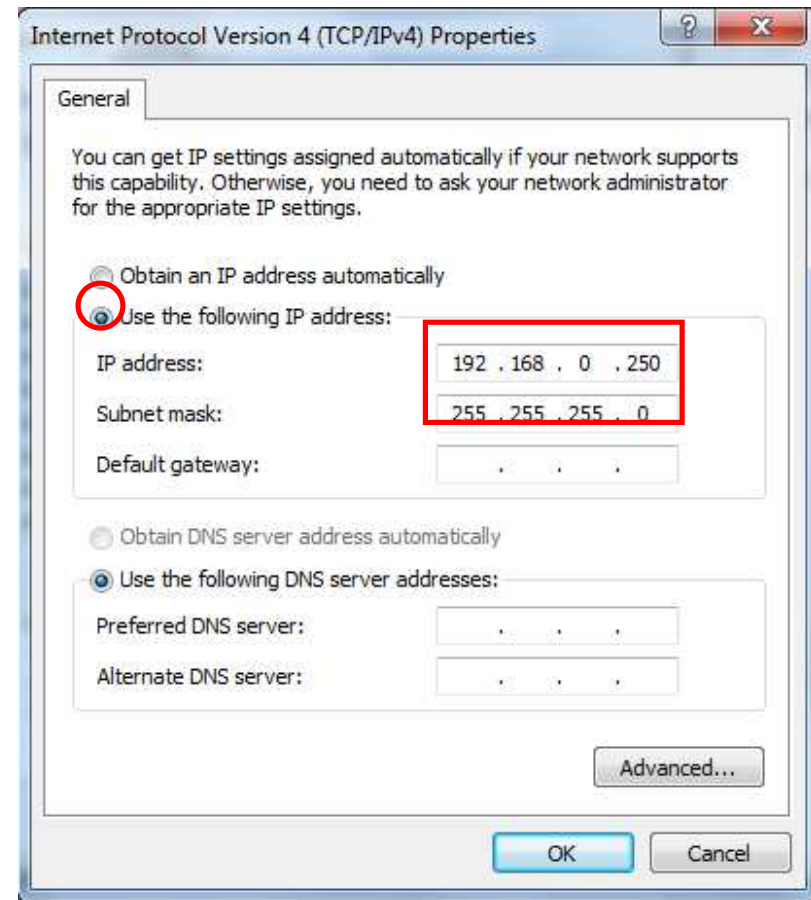


7. Manually set the IP Address. Then click **[OK]**

For example:

IP Address: 192.168.0.250

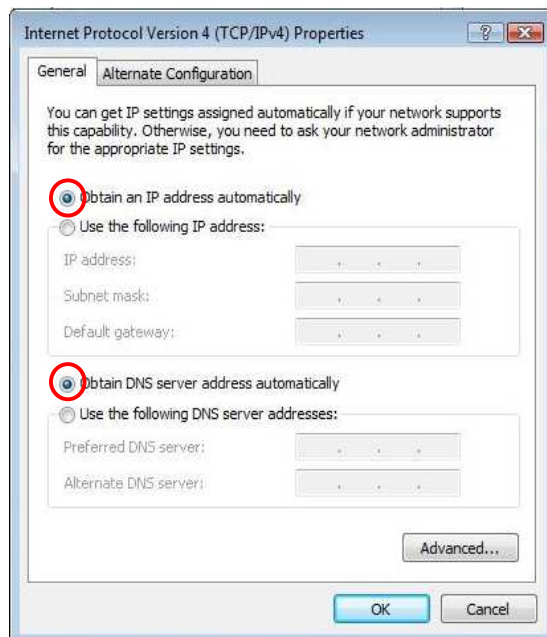
Subnet Mask: 255.255.255.0



8. You should now be able to access the Web-Based configuration in your Web Browser.



9. Remember to configure the settings back to **Obtain an IP Address Automatically** and **Obtain DNS Server Address Automatically** once you complete configuring the Web-Based interface.



8.4 Client Bridge Mode

The Client Bridge mode turns the TRAVEL ROUTER into a wireless client, which then allows non-wireless devices to use its RJ45 port to access the network wirelessly.

8.4.1 Wireless

This section allows you to configure which wireless network the TRAVEL ROUTER will connect to.

Basic

1. Configure which wireless network the TRAVEL ROUTER will connect to in the Wireless Basic page.
2. Use the **Site Survey** button to scan the area for available wireless networks.

Wireless-N Pocket AP/Router

Client Bridge Mode

BasicAdvancedAP Profile

This page allows you to define SSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.

Mode :

Client

Band :

2.4 GHz (B+G+N)

Site Survey :

Site Survey

Wireless Information

SSID:

SENAOWL

Status:

Connected

Channel :

1

Apply

Cancel

3. Select the SSID (wireless network) that you would like to connect to, and then click **Add to AP Profile**.

Site Survey

NO.	Select	Channel	SSID	BSSID	Encryption	Auth	Signal (%)	Mode
1	<input checked="" type="radio"/>	1	SENAOWL	00:97:53:AA:11:1C	WEP	AUTOWEP	65	11b/g/n
2	<input type="radio"/>	1	SENAOWL	00:02:6F:53:0C:9B	WEP	AUTOWEP	81	11b/g
3	<input type="radio"/>	1	SENAOWL	00:02:6F:36:9C:9A	WEP	AUTOWEP	70	11b
4	<input type="radio"/>	1	SENAOVIP	00:02:6F:E0:02:12	NONE	OPEN	44	11b/g
5	<input type="radio"/>	1	EnGenius2	06:02:6F:10:10:12	NONE	OPEN	44	11b/g
6	<input type="radio"/>	1	EnGenius1	00:02:6F:10:10:12	NONE	OPEN	34	11b/g
7	<input type="radio"/>	1	SENAOWL	00:02:6F:48:0D:87	WEP	AUTOWEP	55	11b/g

4. Enter the wireless security settings for this SSID. Then click **Save** to apply the settings.

AP Profile Settings

Network Name (SSID) :	SENAOWL
Encryption :	WEP
Authentication Type :	<input checked="" type="radio"/> Open System <input type="radio"/> Shared Key
Key Length :	64-bit
Key type :	Hex (10 characters)
Default key :	Key 1
Encryption Key 1 :	*****
Encryption Key 2 :	*****
Encryption Key 3 :	*****
Encryption Key 4 :	*****

5. Change your IP Address settings back to **Obtain your IP Address Automatically**.
You should now be connected to the wireless network through the TRAVEL ROUTER.

AP Profiles

You can save the settings up to three wireless networks. The TRAVEL ROUTER will automatically connect to the wireless network in order of priority.

Wireless-N Pocket AP/Router
Client Bridge Mode ▾

Basic
Advanced
AP Profile

AP Profile Table

NO.	SSID	MAC	Authentication	Encryption	Select
1	EnGenius	00:00:00:00:00:00	Open System	NONE	<input type="checkbox"/>
2	SENAOWL	00:02:6F:53:0C:9B	Open System	WEP	<input type="checkbox"/>
3	EnGenius3	0A:02:6F:10:10:12	Open System	NONE	<input type="checkbox"/>

Add Edit Move Up Move Down Delete Selected Delete All Connect

AP Profile	
Add:	Manually Add a new SSID (wireless network) profile.
Edit:	Edit the SSID settings.
Move Up / Down:	Change the priority that the TRAVEL ROUTER will connect to these SSID's.
Delete Selected:	Deletes the selected SSID profile.
Delete All:	Deletes all SSID profiles.
Connect:	Force connection to this SSID.

Appendix A – FCC Interference Statement

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:**FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

We declare that the product is limited in CH1~CH11 by specified firmware controlled in the USA.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Appendix B – IC Interference Statement

Industry Canada statement:

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This device has been designed to operate with an antenna having a maximum gain of 2 dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.